T06280"6TE2+660

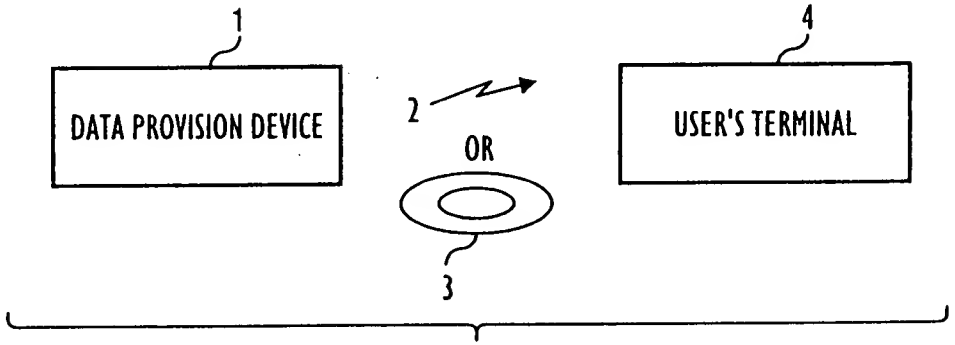


FIG. 1

T06280"6TE2+660

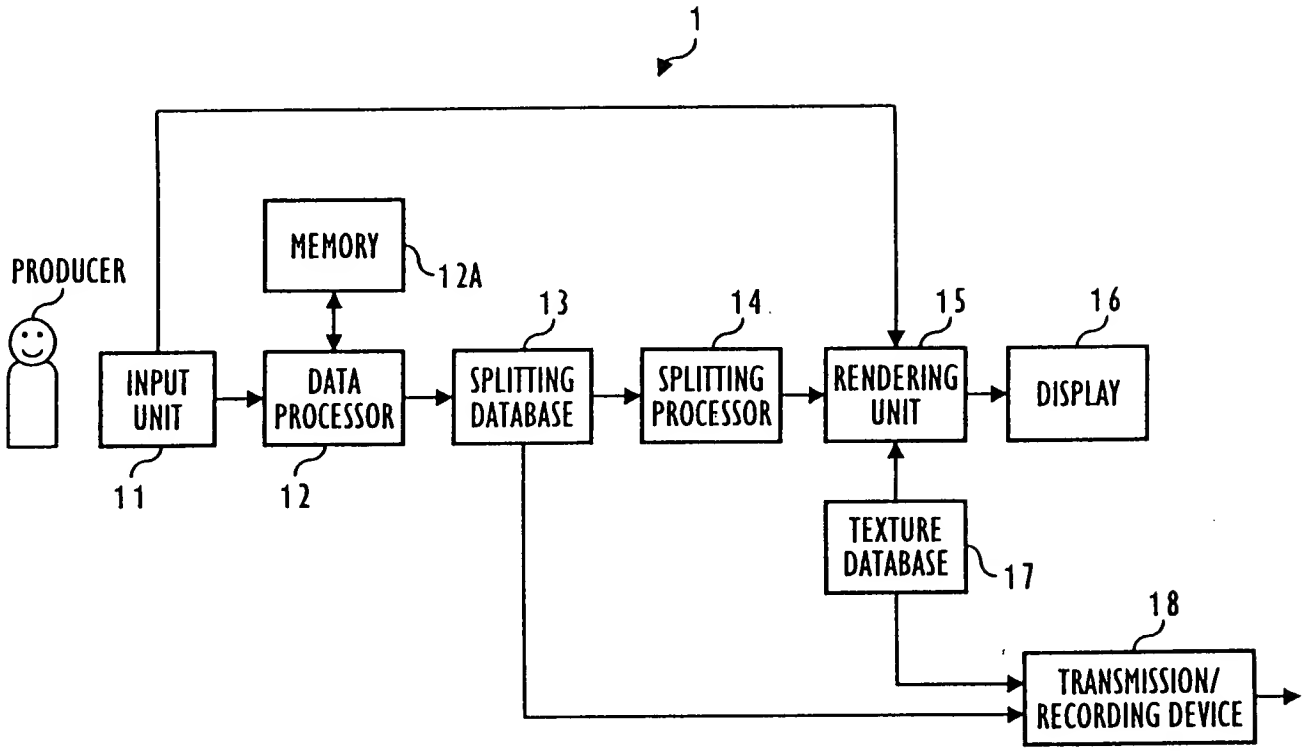


FIG. 2

T06280"6TE2h660

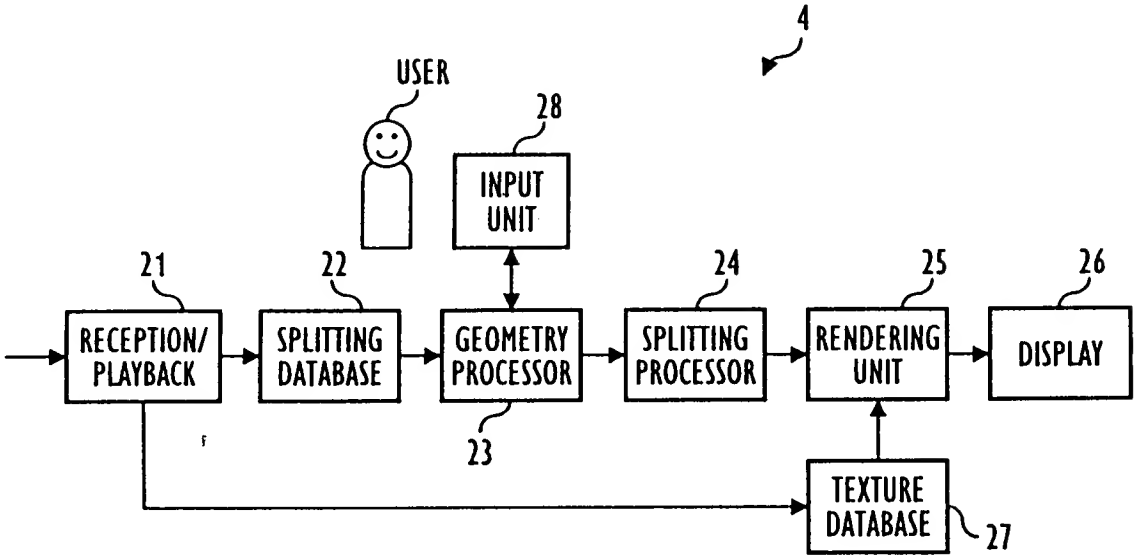


FIG. 3

EP 0 962 894 A2

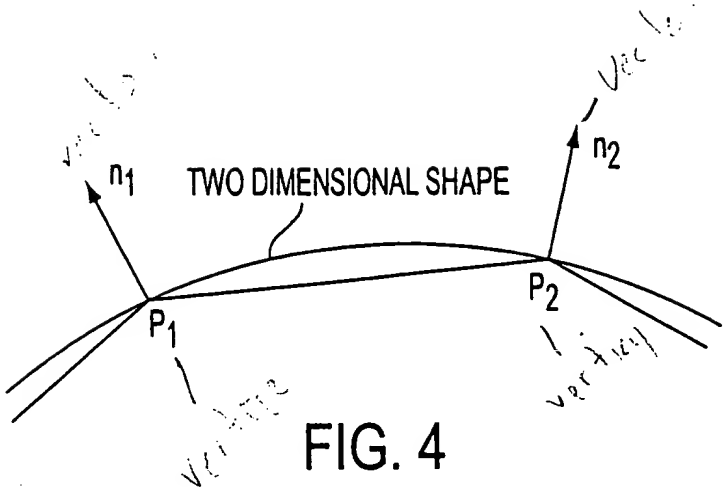


FIG. 4

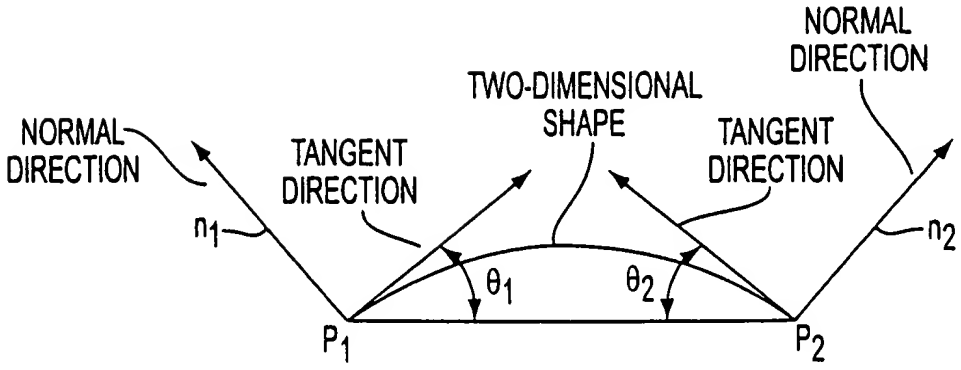


FIG. 5

EP 0 620 680 A2

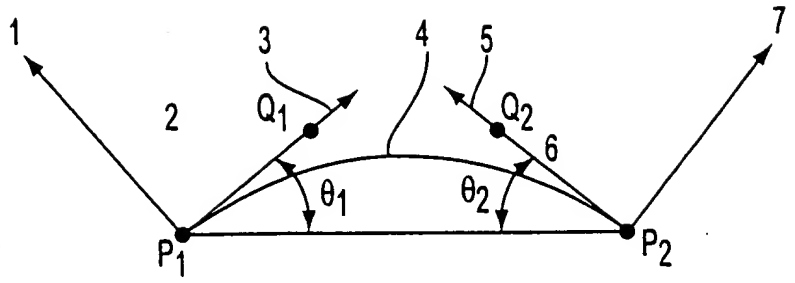


FIG. 6

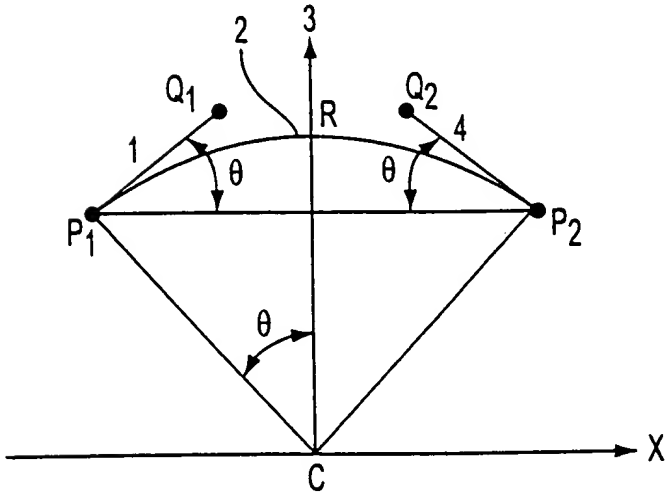


FIG. 7

EP 0 962 860 A2

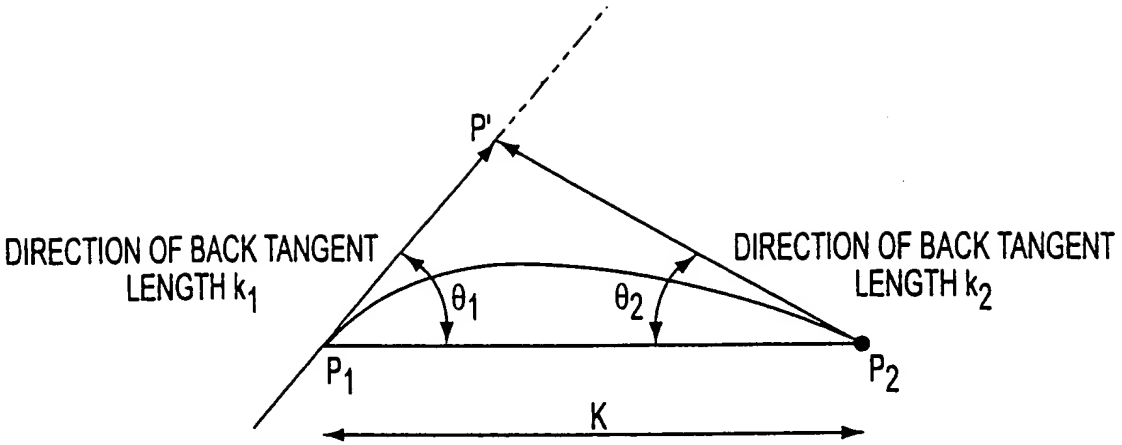


FIG. 8A

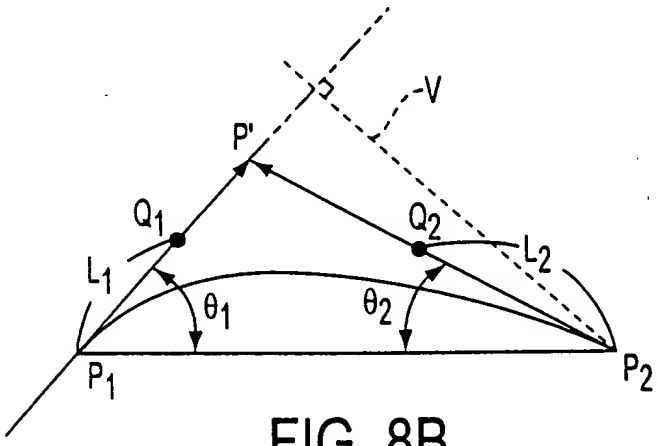


FIG. 8B

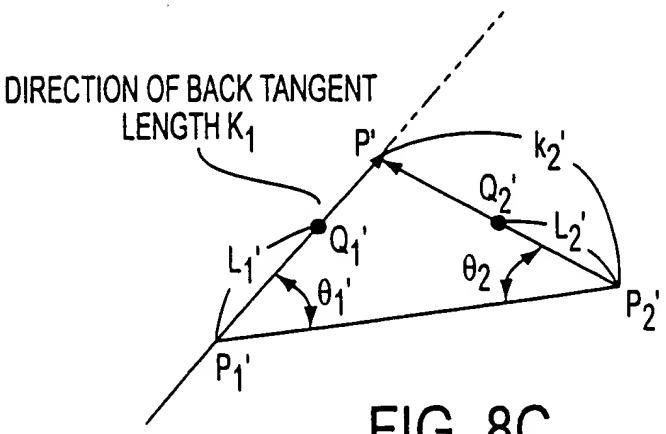


FIG. 8C

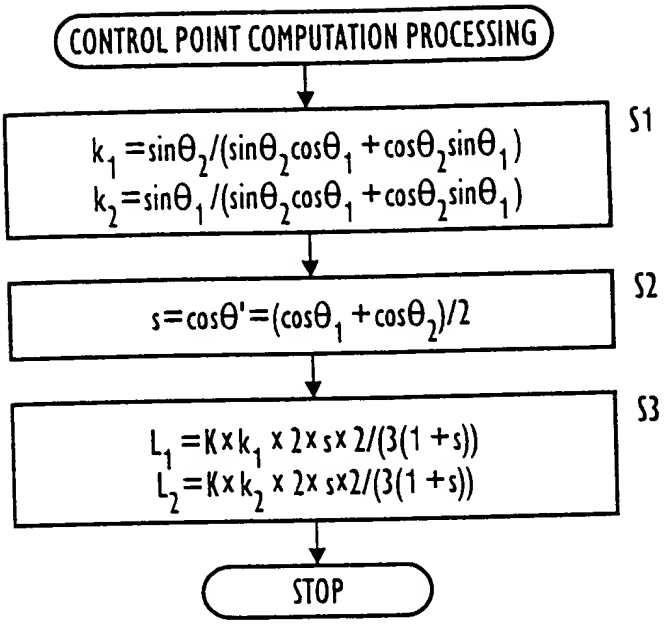


FIG. 9

EP 0 629 980 A2

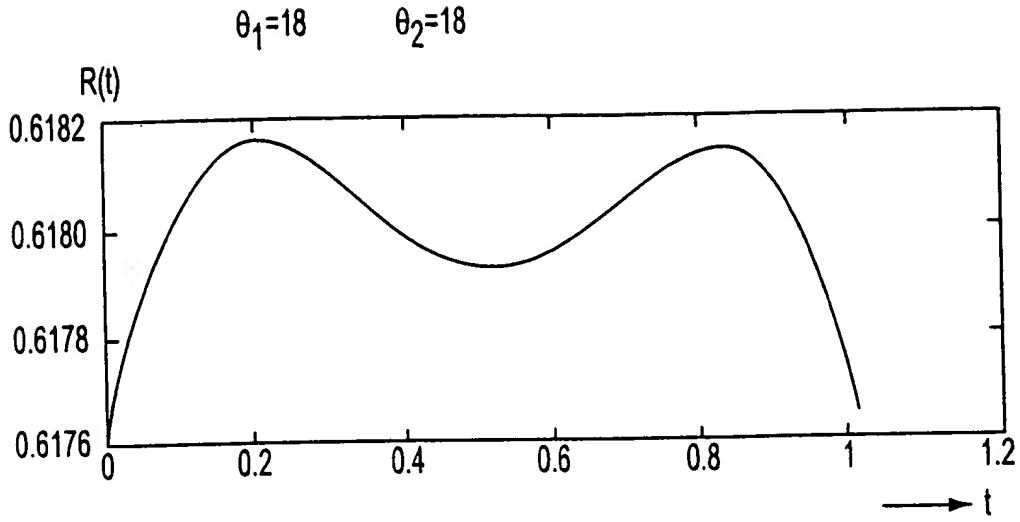


FIG. 10A

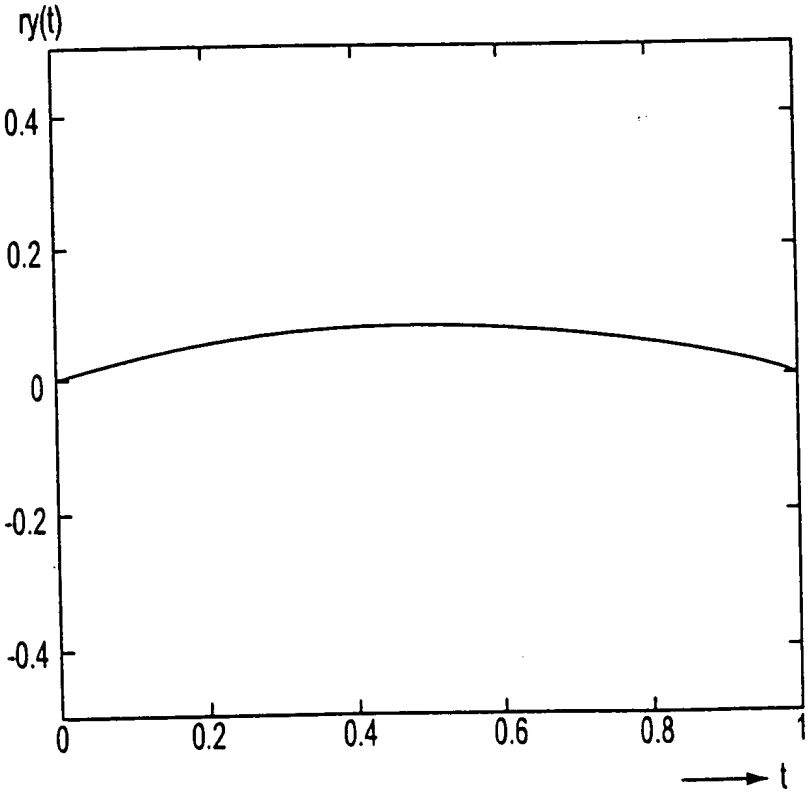


FIG. 10B

EP0628894A2 I 940928

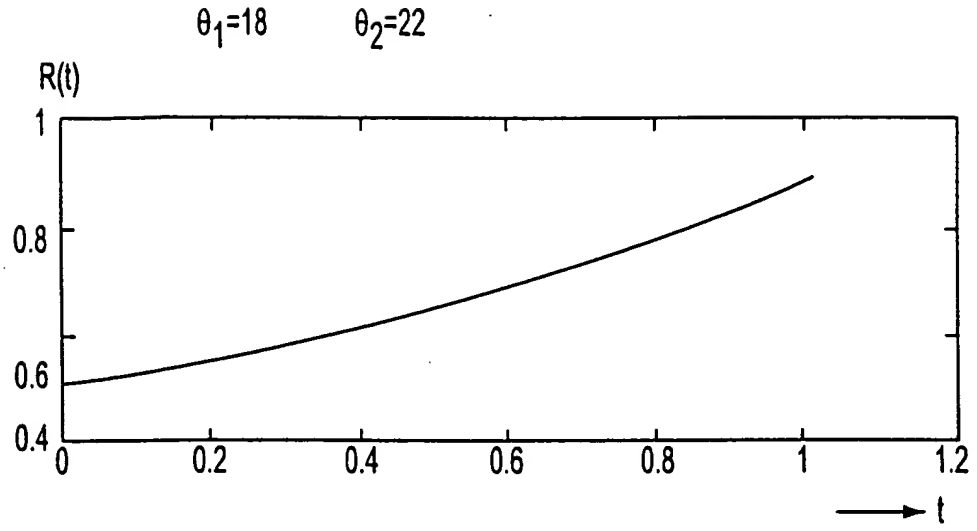


FIG. 11A

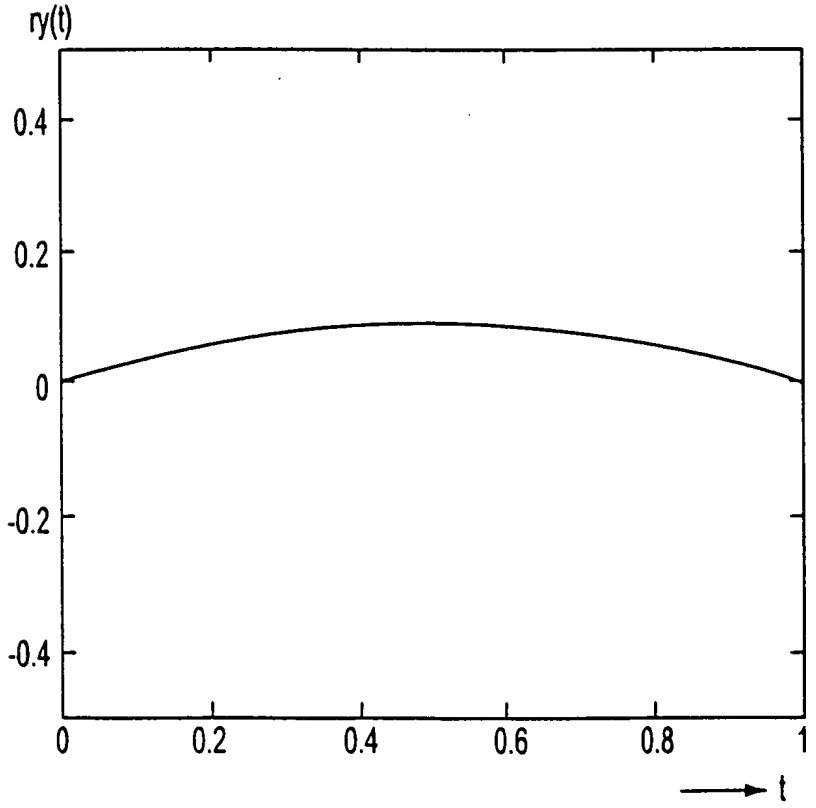


FIG. 11B

EP0602808A2 I>

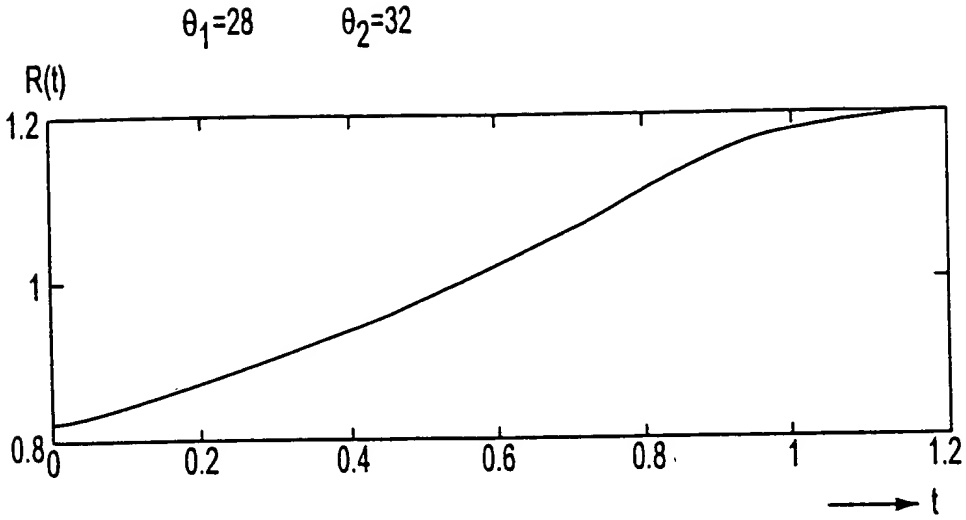


FIG. 12A

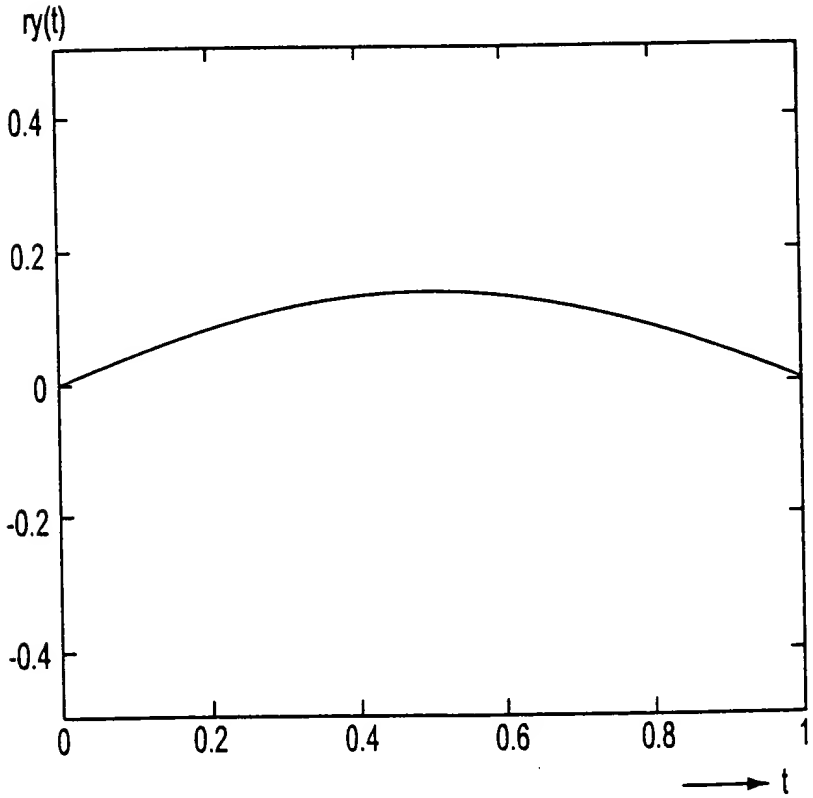


FIG. 12B

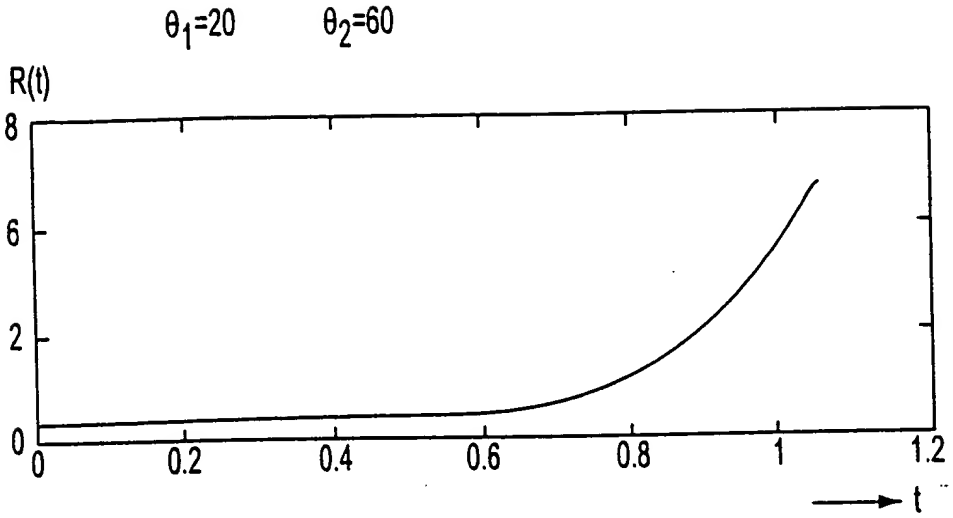


FIG. 13A

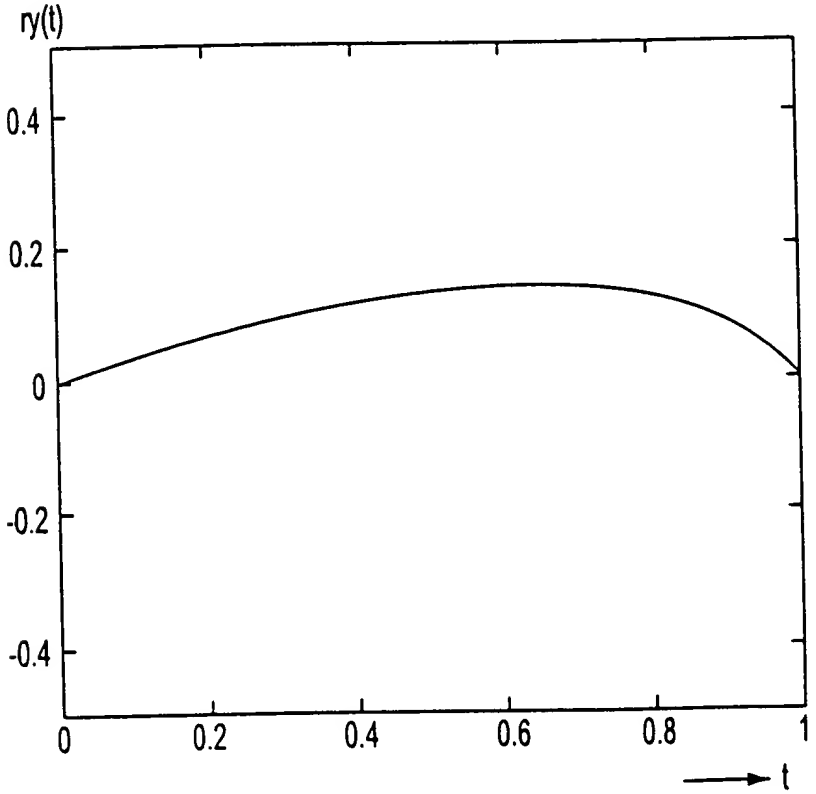


FIG. 13B

T06280"6TE2h660

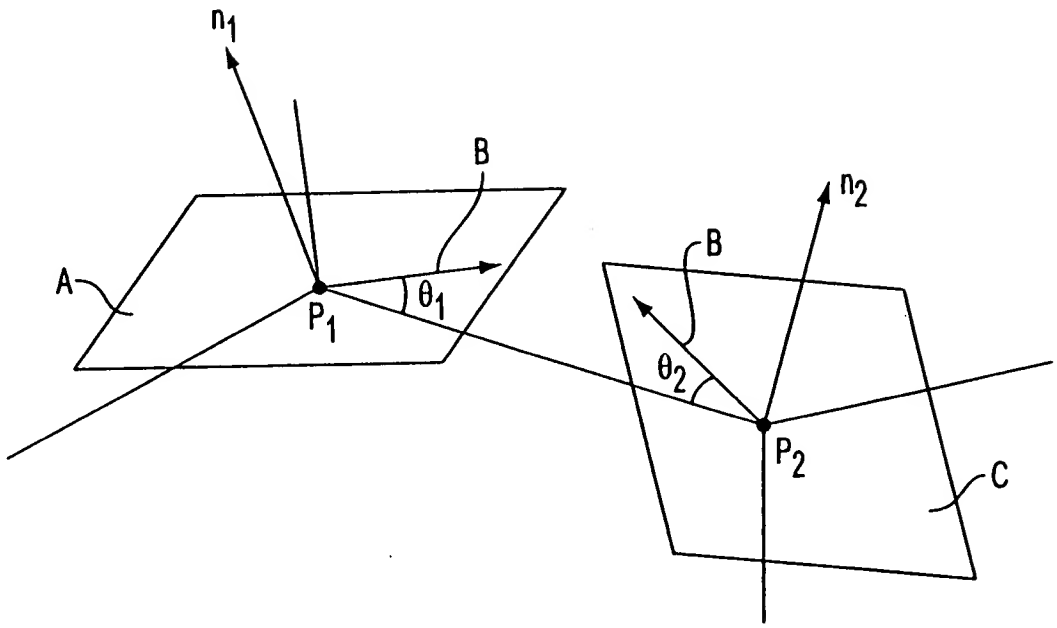


FIG. 14

T06280"6TE2h660

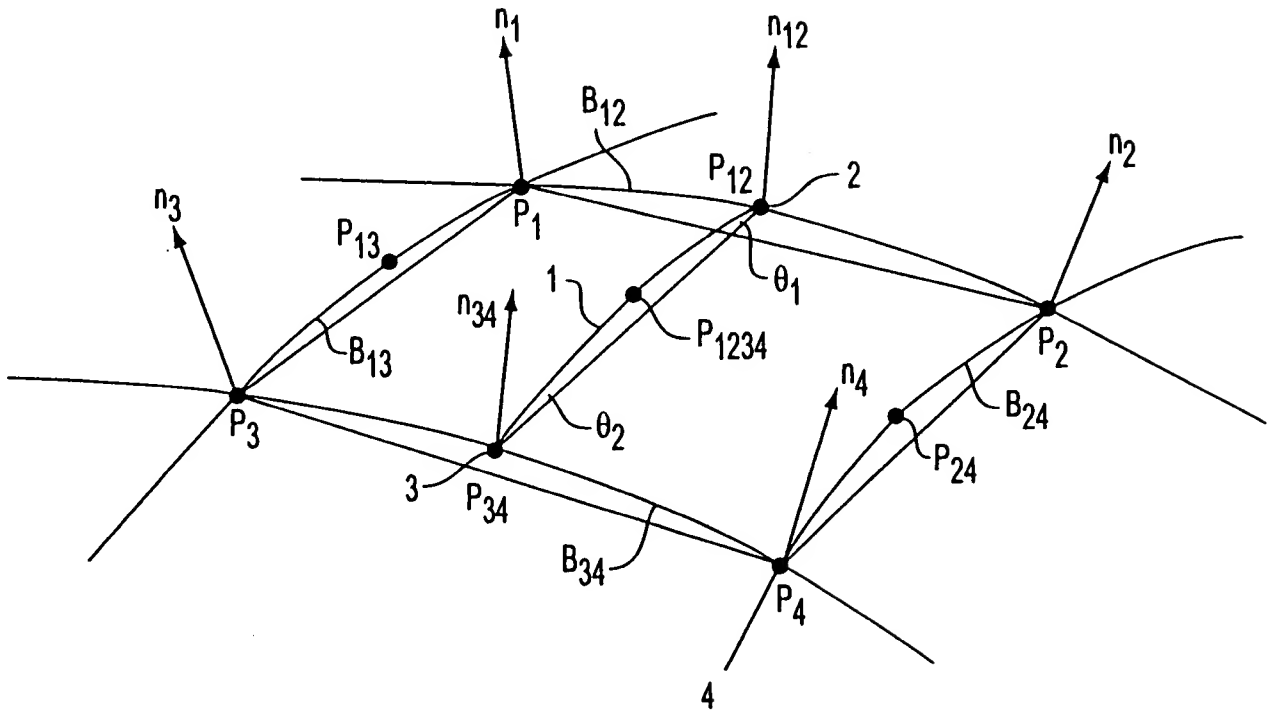


FIG. 15

EP 0 962 894 A2

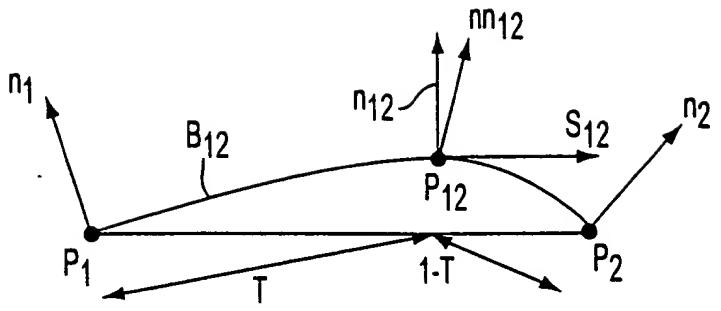


FIG. 16

T06280"6TE2h660

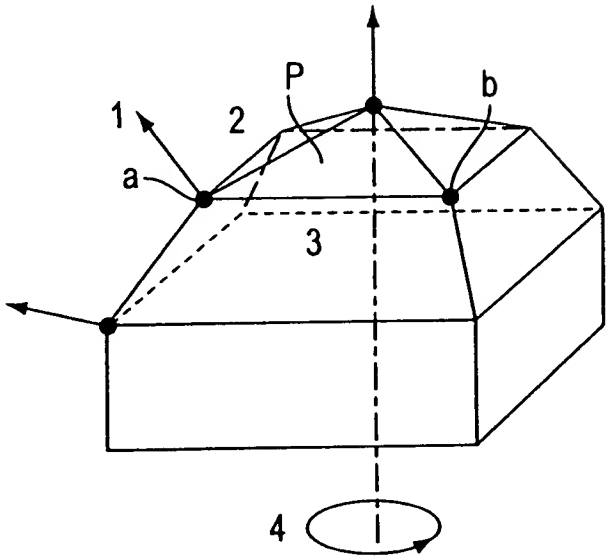


FIG. 17(A)

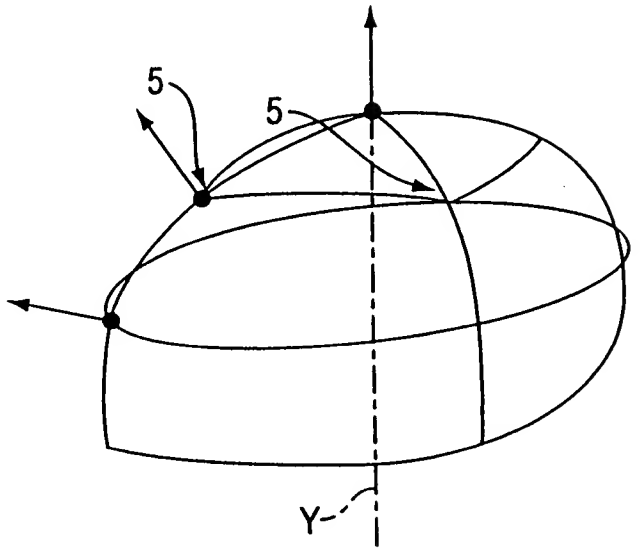


FIG. 17(B)

EP 0 969 418 A2

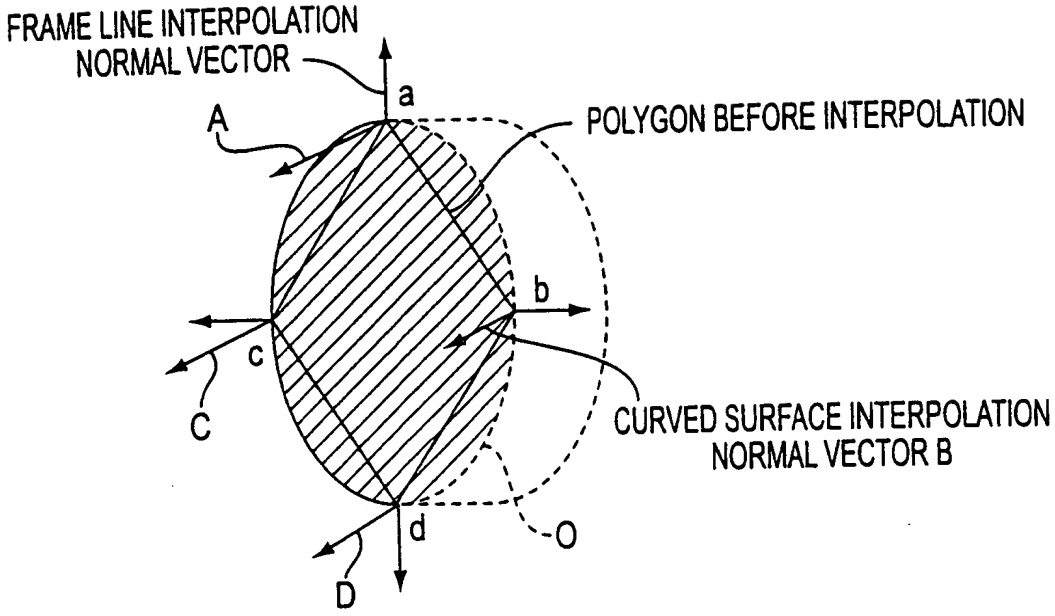


FIG. 18

EP 0 869 459 A2

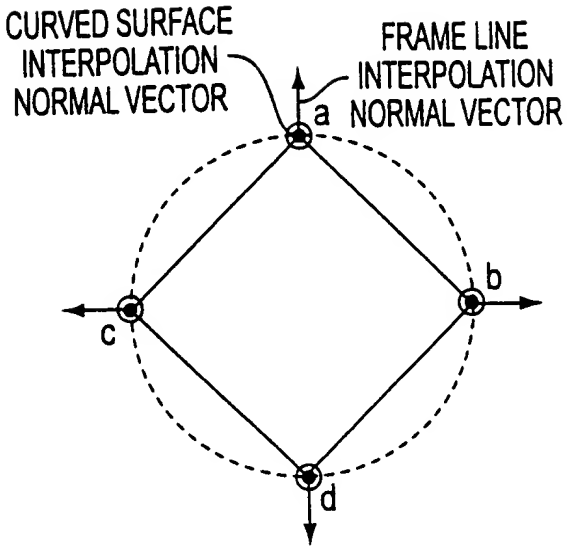


FIG. 19(A)

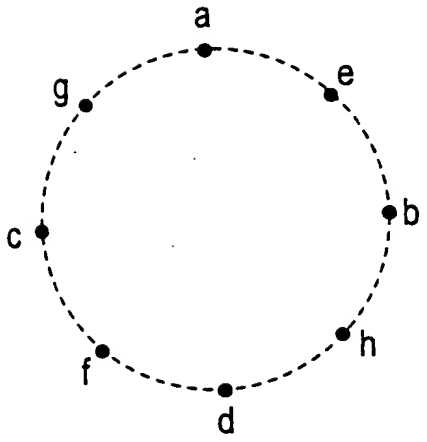


FIG. 19(C)

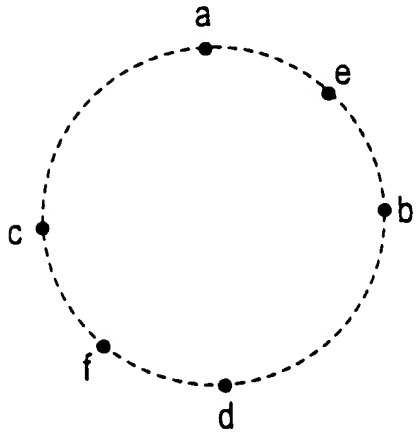


FIG. 19(B)

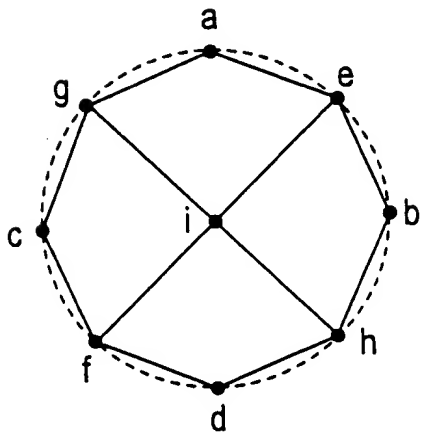


FIG. 19(D)

EP 0 824 249 A2

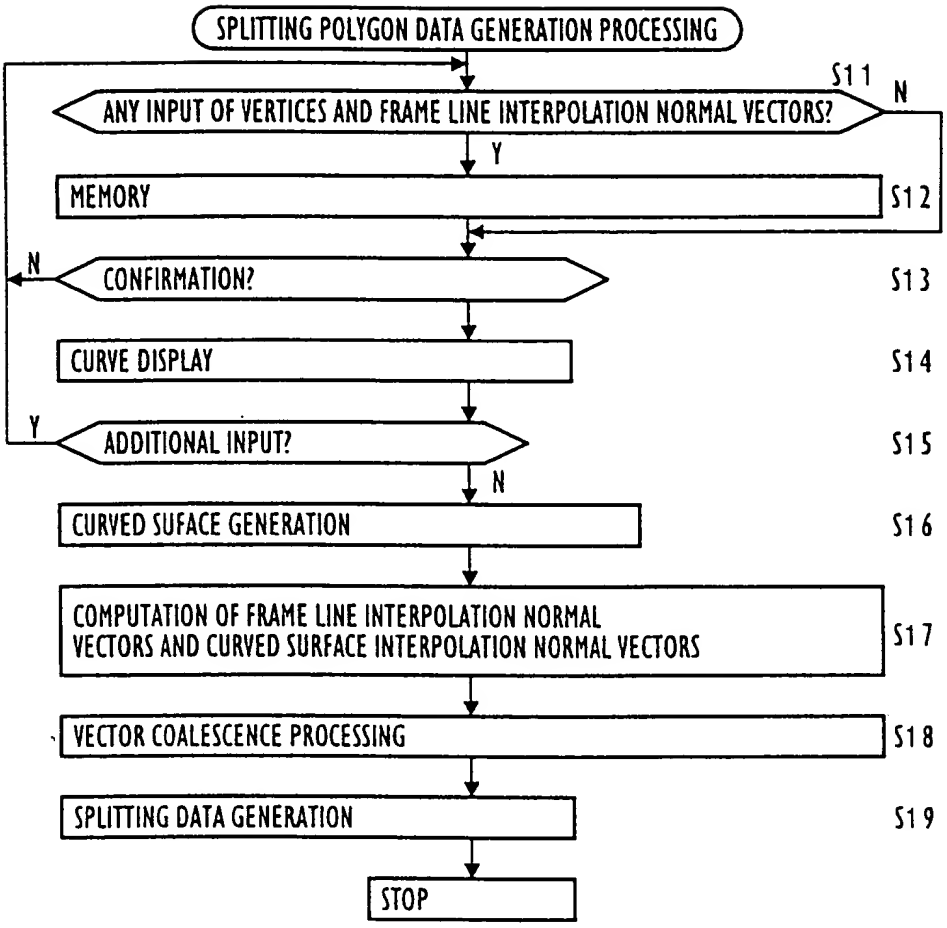


FIG. 20

EP 0 930 594 A2

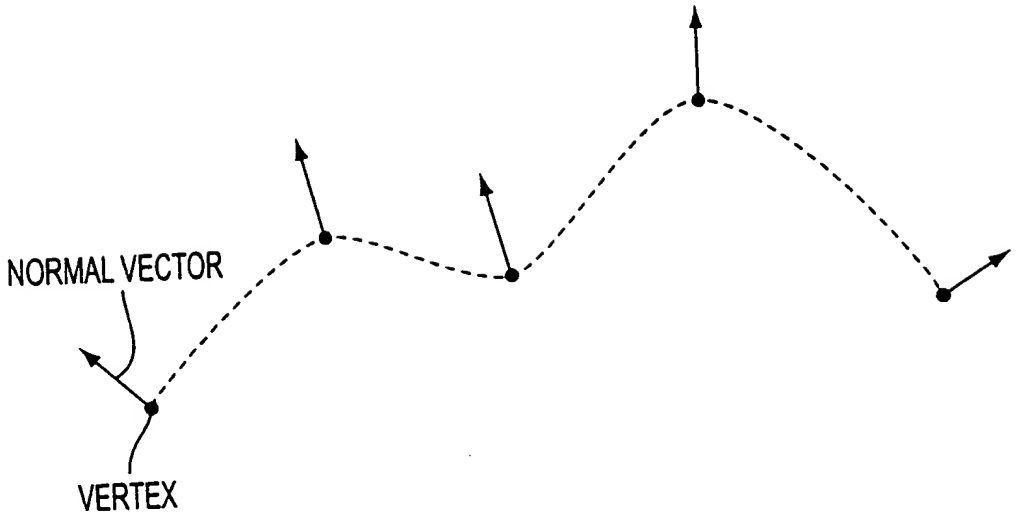


FIG. 21

EP 0 628 960 A2

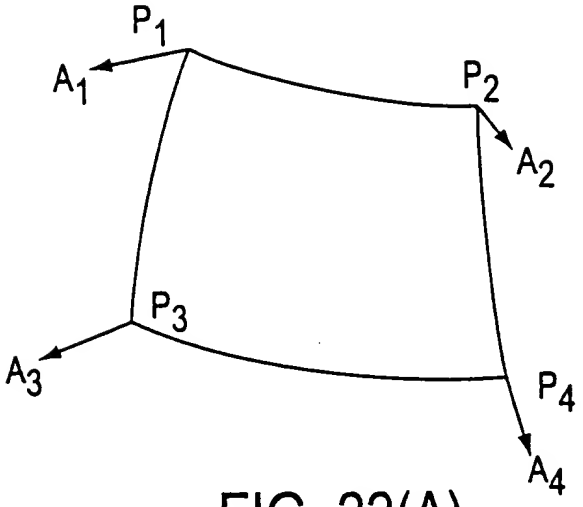


FIG. 22(A)

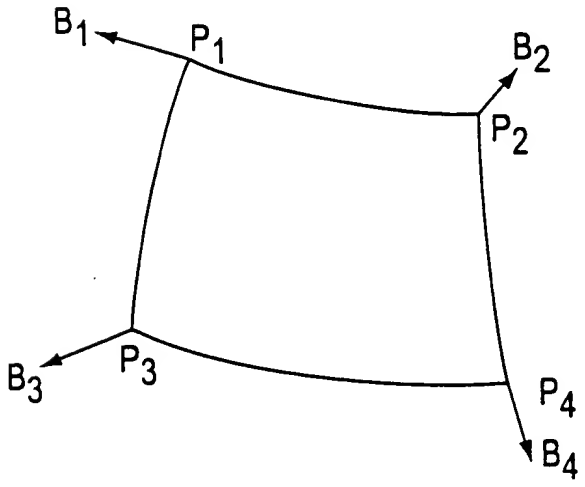


FIG. 22(B)

D0204360 "0202"

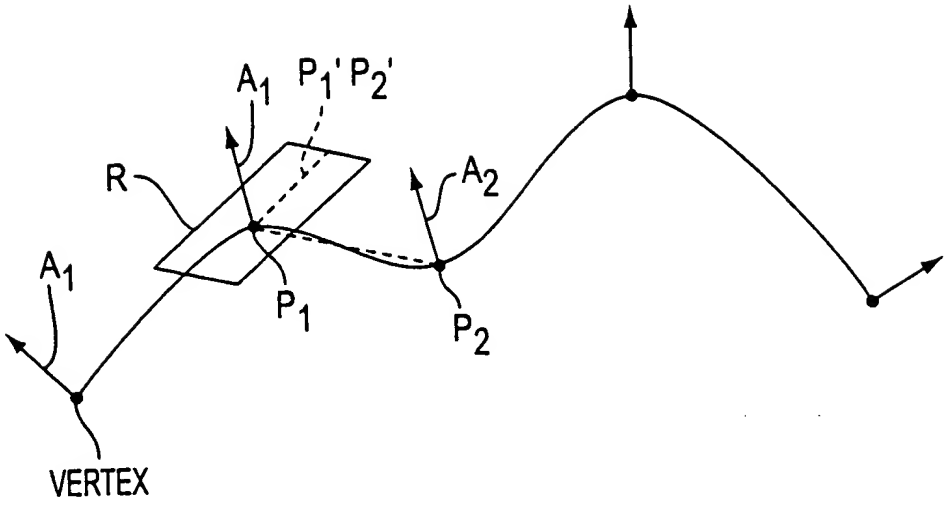


FIG. 23

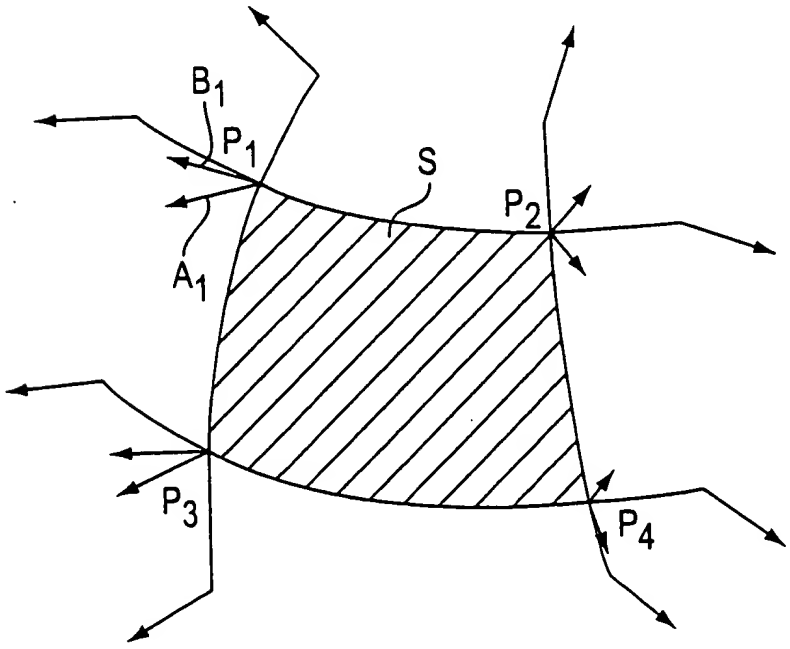


FIG. 24

EP 0 794 520 A2

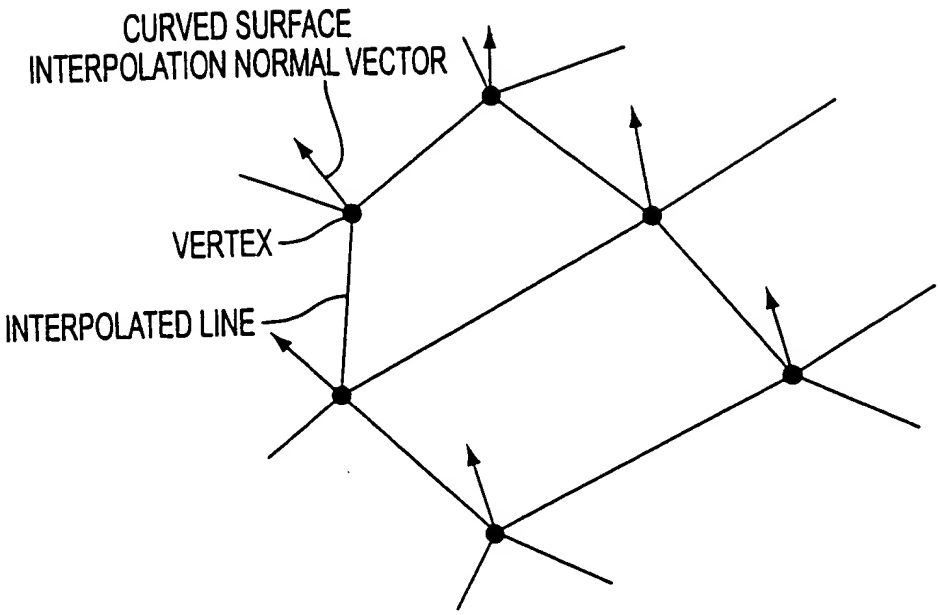


FIG. 25(A)

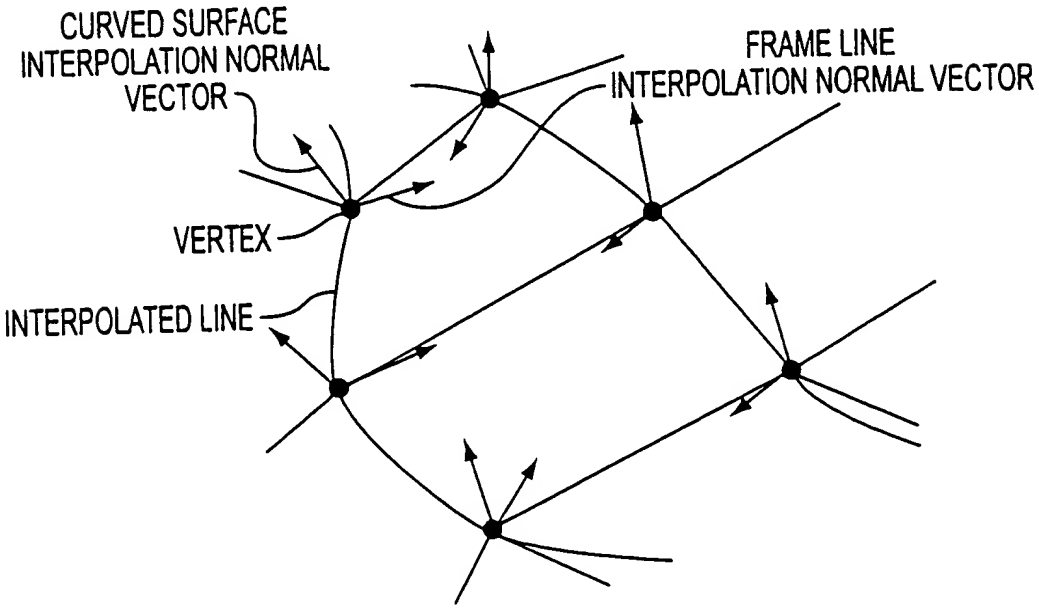
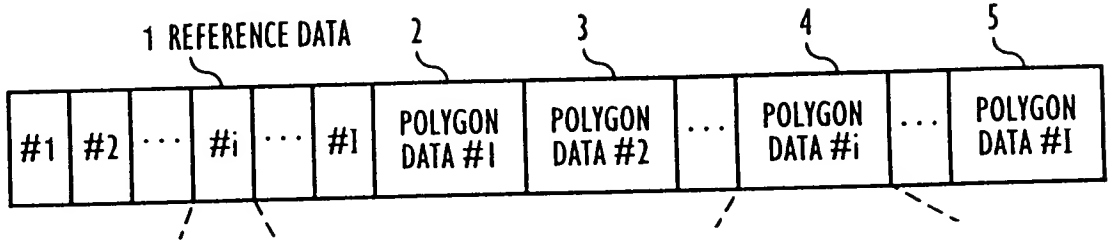


FIG. 25(B)

T06280" 6TE2h660

FIG. 26A



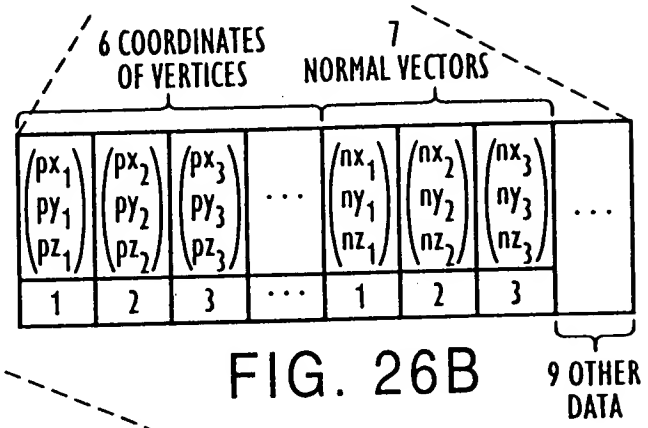


FIG. 26B

FIG. 26C

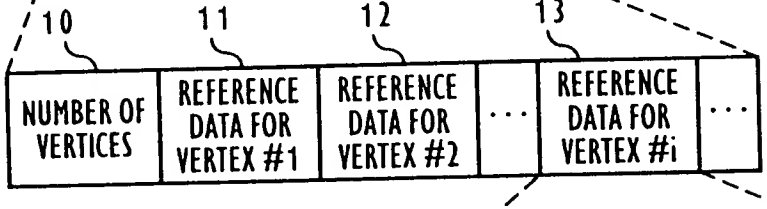
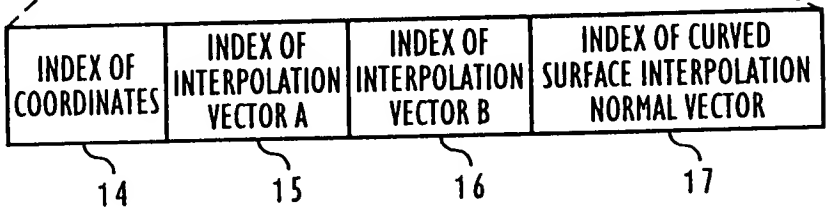


FIG. 26D



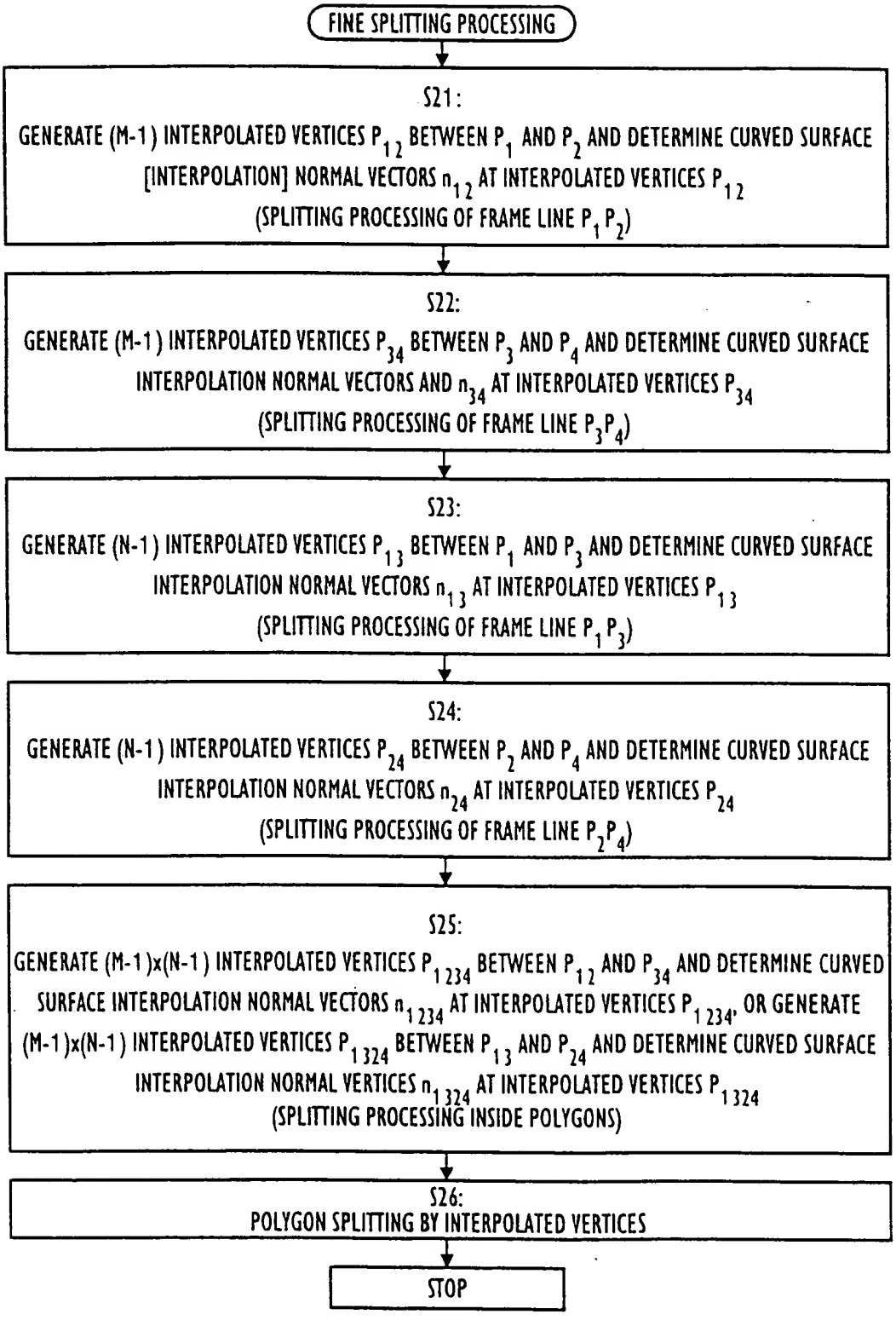


FIG. 27

EP 0 903 694 A2

T06280"6TE24660

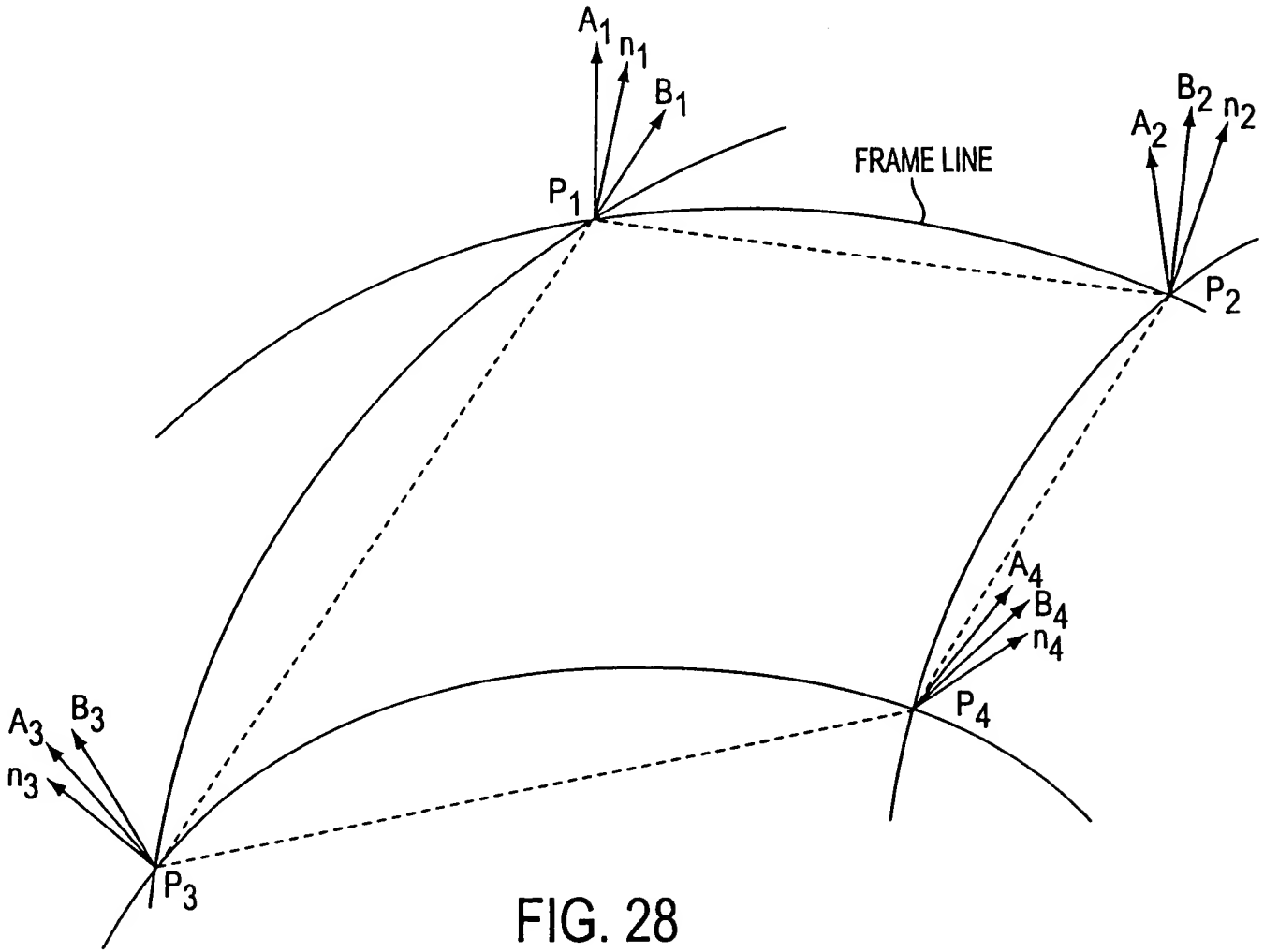


FIG. 28

T06280 "6TE2h660

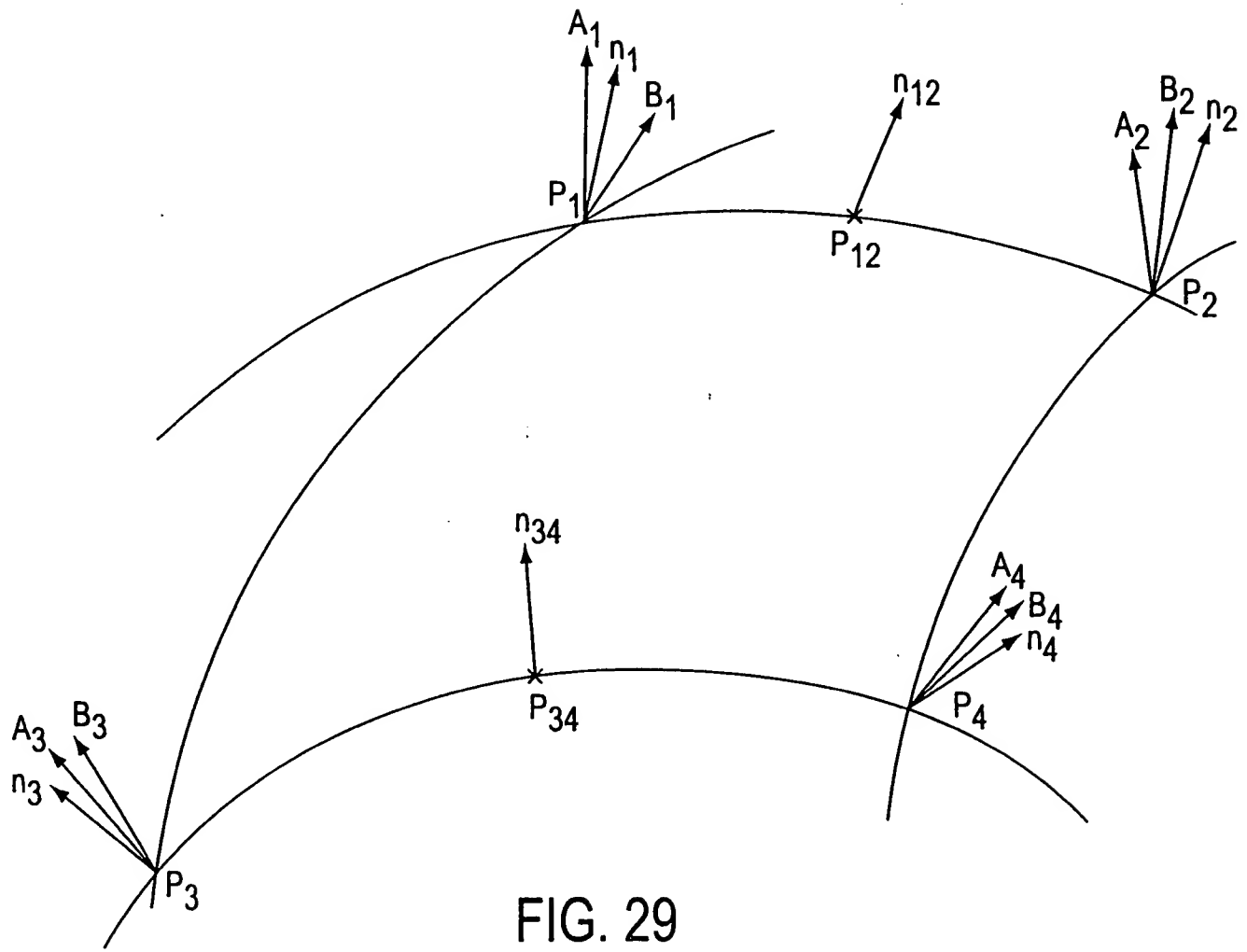


FIG. 29

T06280" 6TE2h660

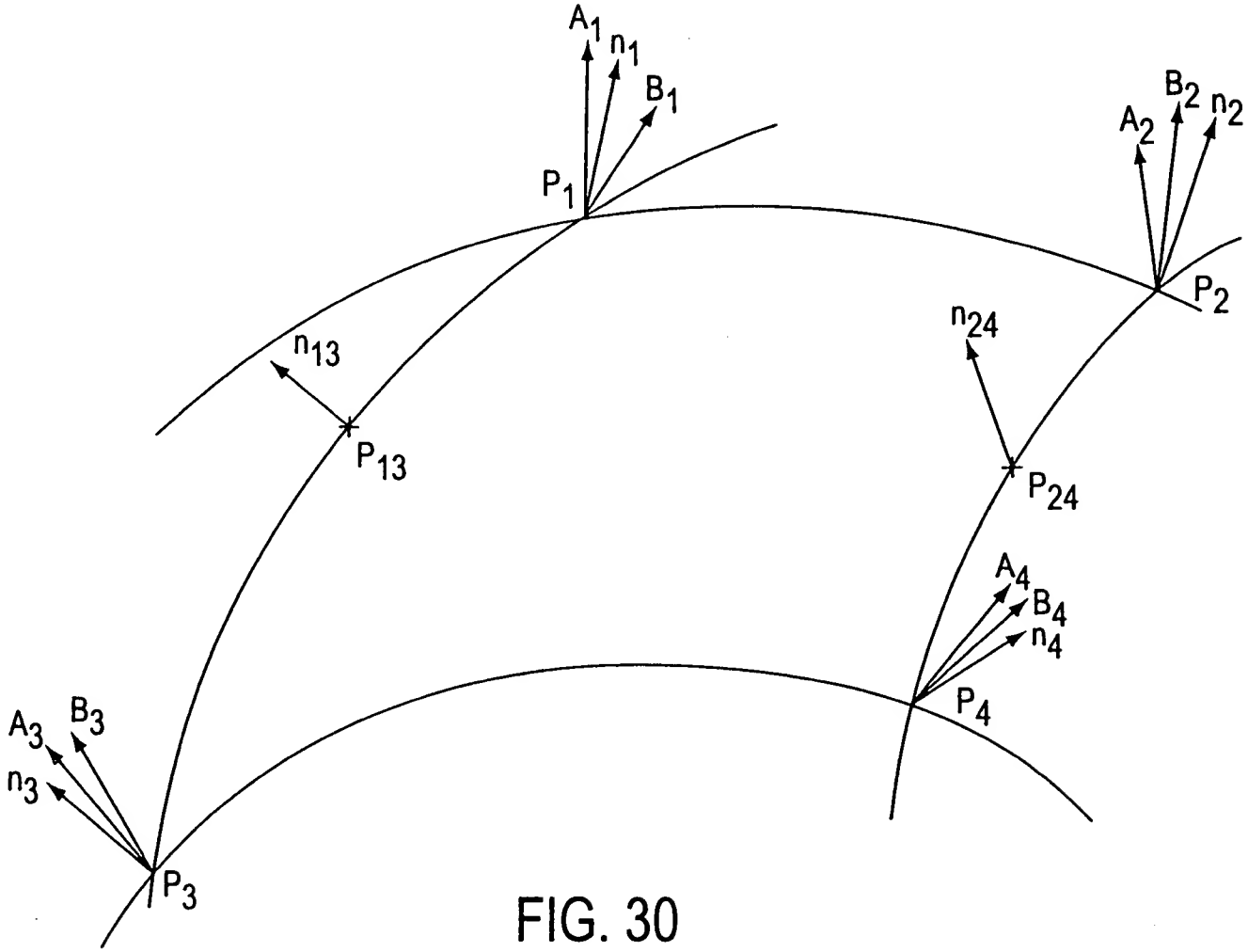


FIG. 30

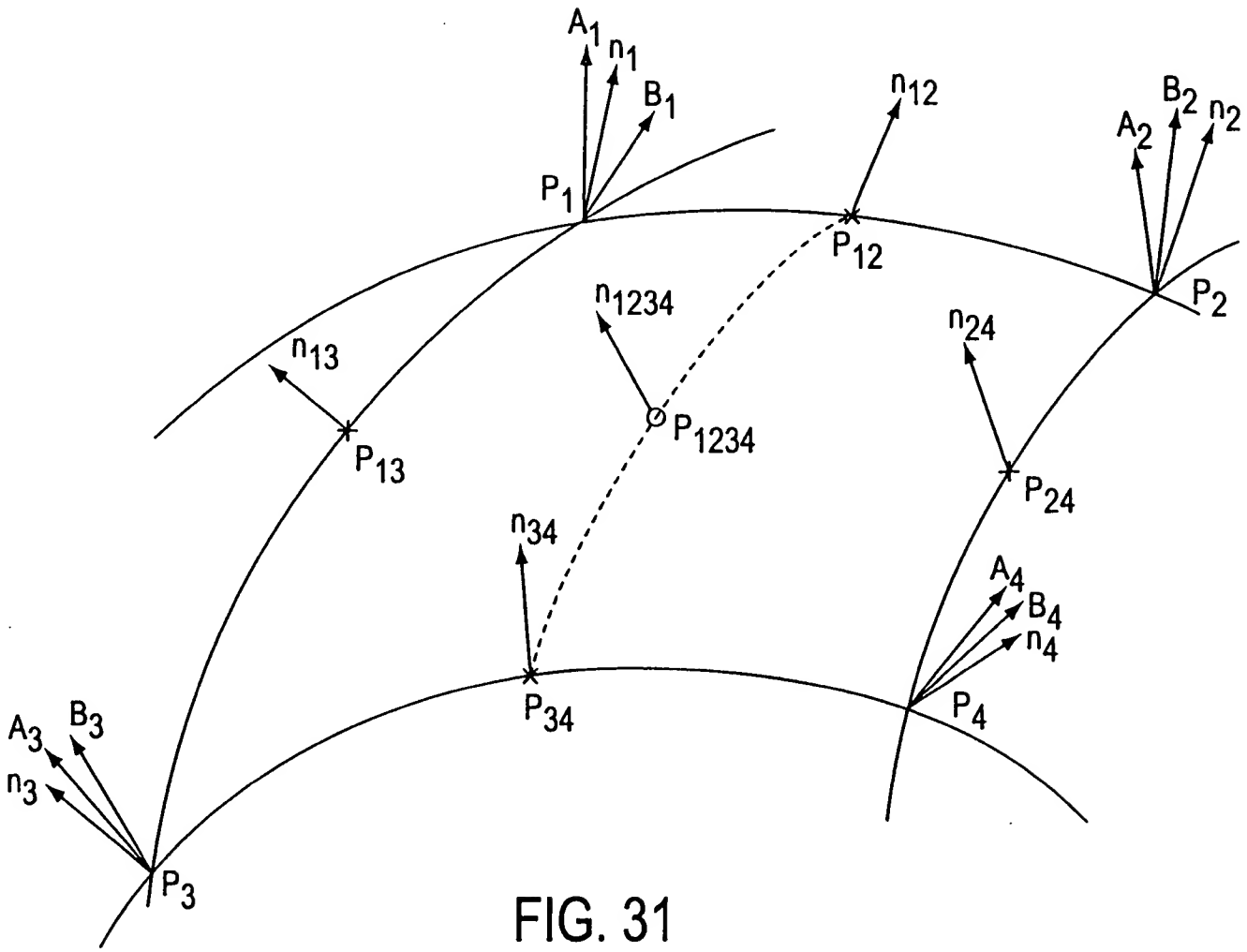

A1
n1
B1
P1
n12
P12
B2
A2
n2
P2
n1234
P1234
n13
P13
n24
P24
n34
P34
A4
B4
n4
P4
A3
B3
n3
P3

FIG. 31

T06280" 6TE2h660

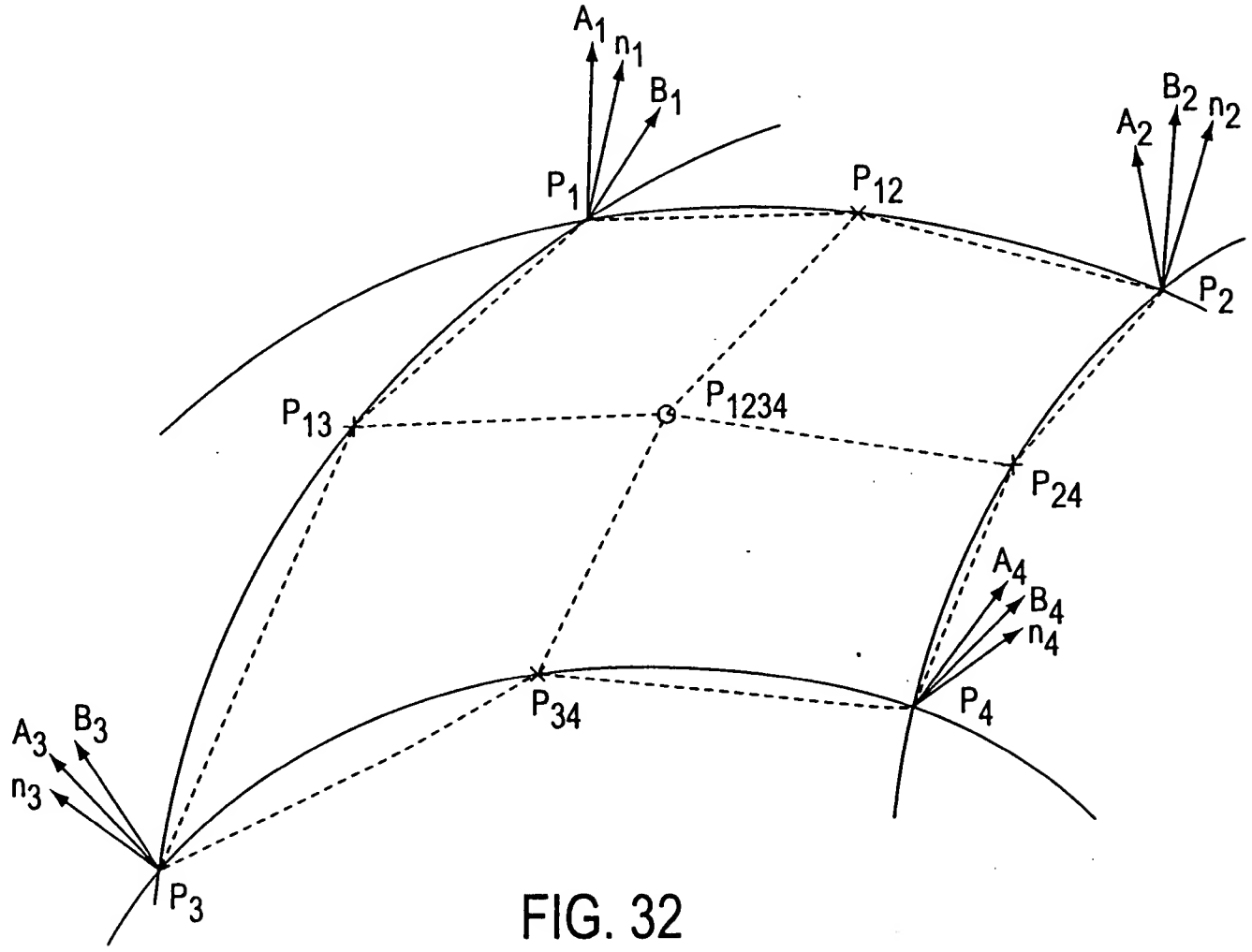


FIG. 32

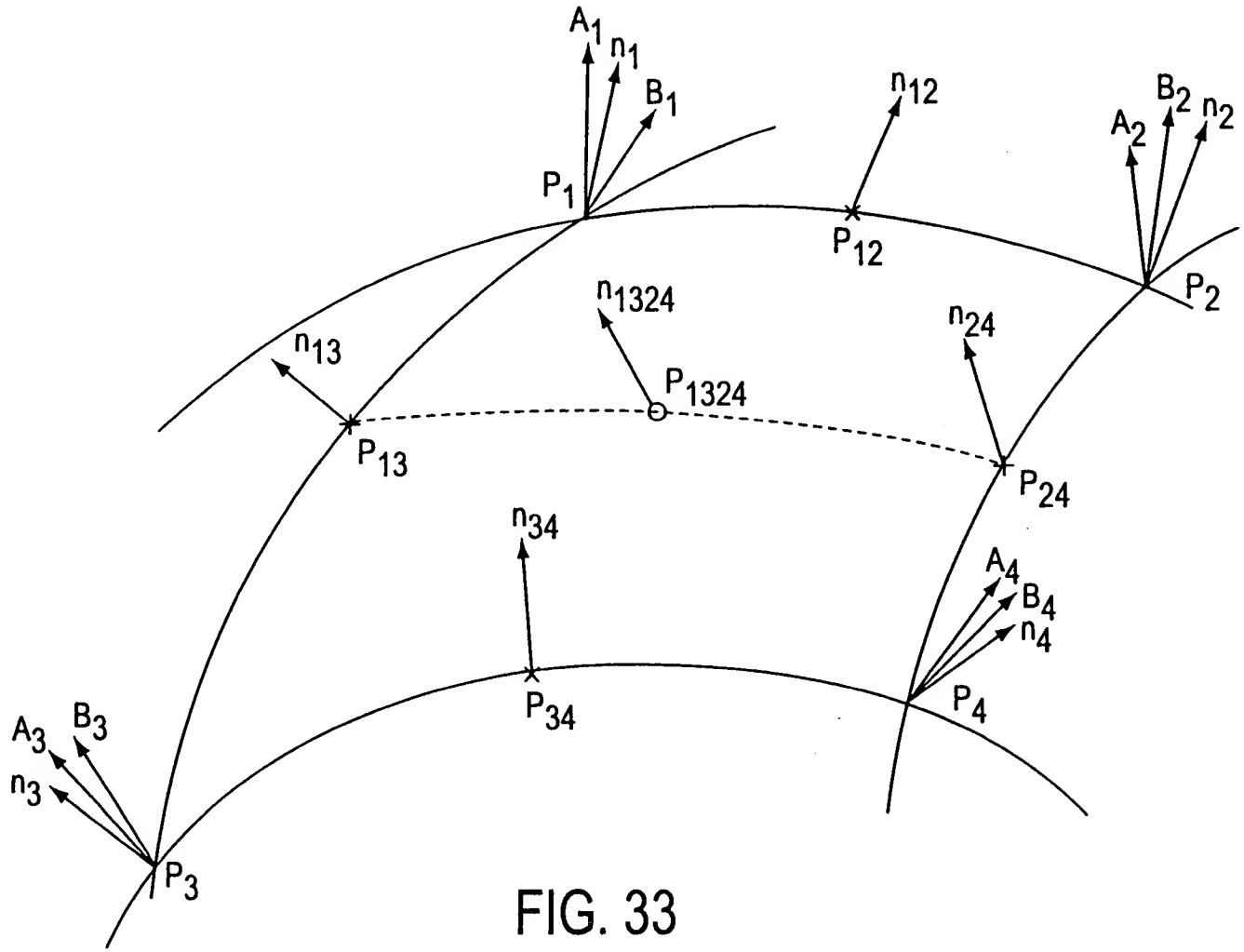

A1
n1
B1
P1
n12
P12
A2
B2
n2
P2
n1324
P1324
n13
P13
n24
P24
n34
P34
A4
B4
n4
P4
A3
B3
n3
P3

FIG. 33

SPLITTING PROCESSING OF FRAME LINES

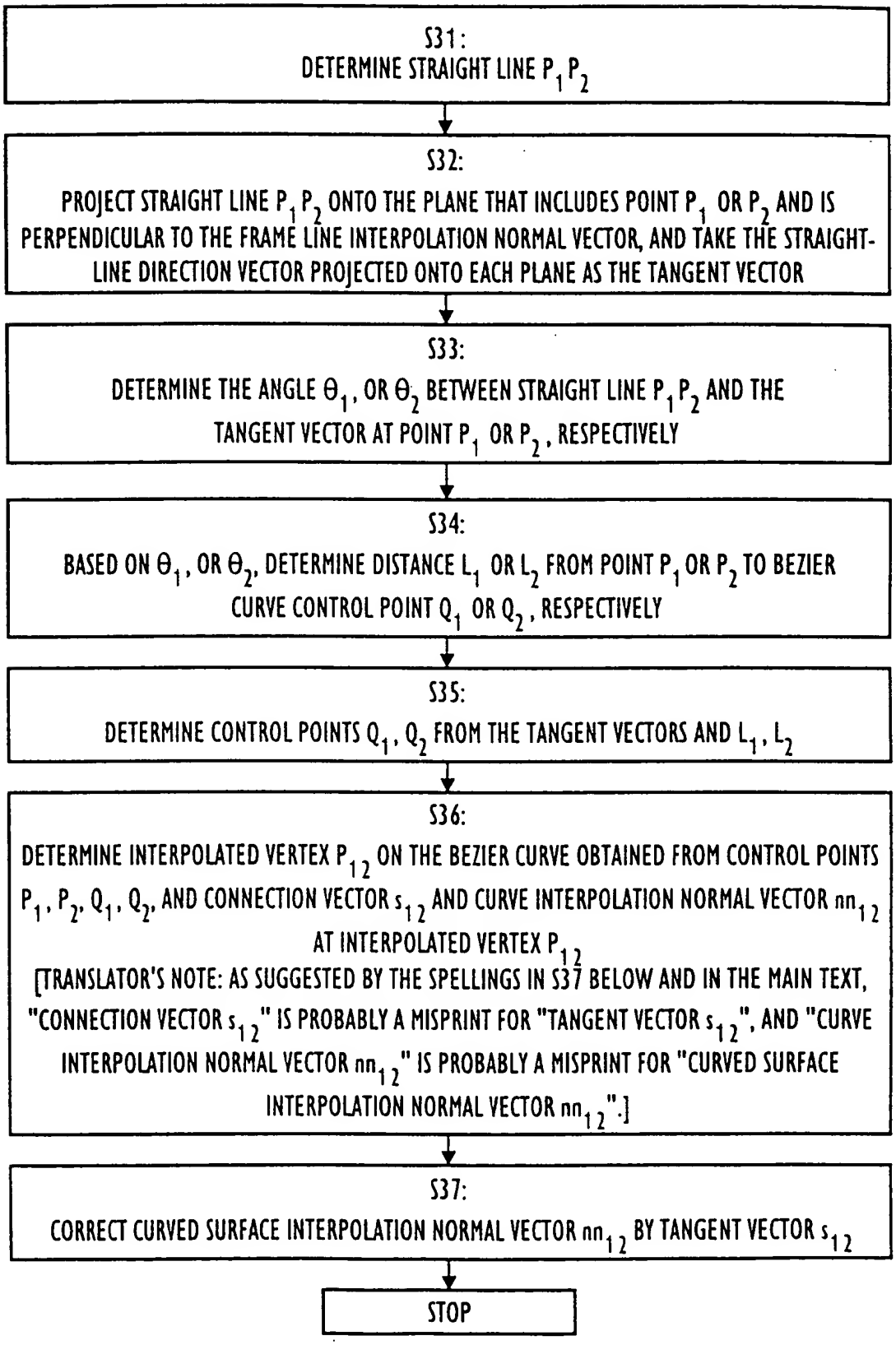


FIG. 34

EP 0 620 535 A2

SPLITTING PROCESSING WITHIN POLYGONS

S41:
DETERMINE STRAIGHT LINE P_1P_2

S42:
PROJECT STRAIGHT LINE P_1P_2 ONTO THE PLANE THAT INCLUDES POINT P_1 OR P_2 AND IS PERPENDICULAR TO THE CURVED SURFACE INTERPOLATION NORMAL VECTOR, AND TAKE THE STRAIGHT-LINE DIRECTION VECTOR PROJECTED ONTO EACH PLANE AS THE TANGENT VECTOR

S43:
DETERMINE THE ANGLE θ_1 OR θ_2 BETWEEN STRAIGHT LINE P_1P_2 AND THE TANGENT VECTOR AT POINT P_1 OR P_2, RESPECTIVELY

S44:
BASED ON θ_1, OR θ_2, DETERMINE DISTANCE L_1 OR L_2 FROM POINT P_1 OR P_2 TO BEZIER CURVE CONTROL POINT Q_1 OR Q_2, RESPECTIVELY

S45:
DETERMINE CONTROL POINTS Q_1, Q_2 FROM THE TANGENT VECTORS AND L_1, L_2

S46:
DETERMINE INTERPOLATED VERTEX P_{12} ON THE BEZIER CURVE OBTAINED FROM CONTROL POINTS P_1, P_2, Q_1, Q_2, AND CONNECTION VECTOR s_{12} AND CURVE INTERPOLATION NORMAL VECTOR nn_{12} AT INTERPOLATED VERTEX P_{12}
[TRANSLATOR'S NOTE: AS SUGGESTED BY THE SPELLINGS IN S47 BELOW AND IN THE MAIN TEXT, "CONNECTION VECTOR s_{12}" IS PROBABLY A MISPRINT FOR "TANGENT VECTOR s_{12}", AND "CURVE INTERPOLATION NORMAL VECTOR nn_{12}" IS PROBABLY A MISPRINT FOR "CURVED SURFACE INTERPOLATION NORMAL VECTOR nn_{12}".]

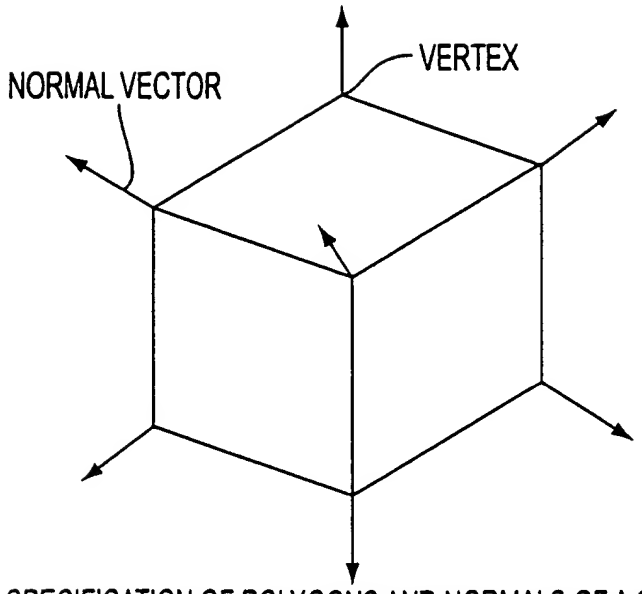
S47:
CORRECT CURVED SURFACE INTERPOLATION NORMAL VECTOR nn_{12} BY TANGENT VECTOR s_{12}

STOP

FIG. 35

EP 0 871 148 A2

09042346 - 082604



SPECIFICATION OF POLYGONS AND NORMALS OF A CUBE

FIG. 36

T06280"6TE2h660

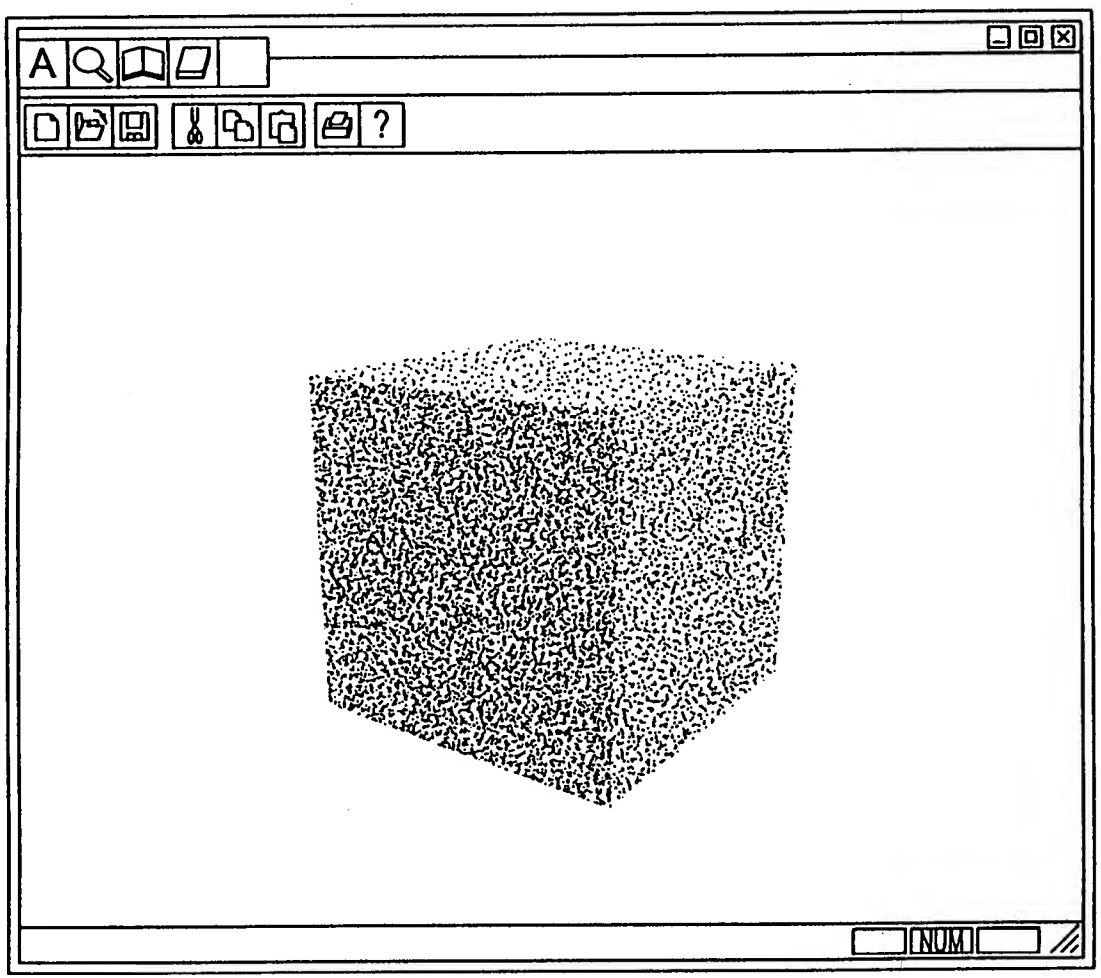


FIG. 37

T06280" 6TE2h660

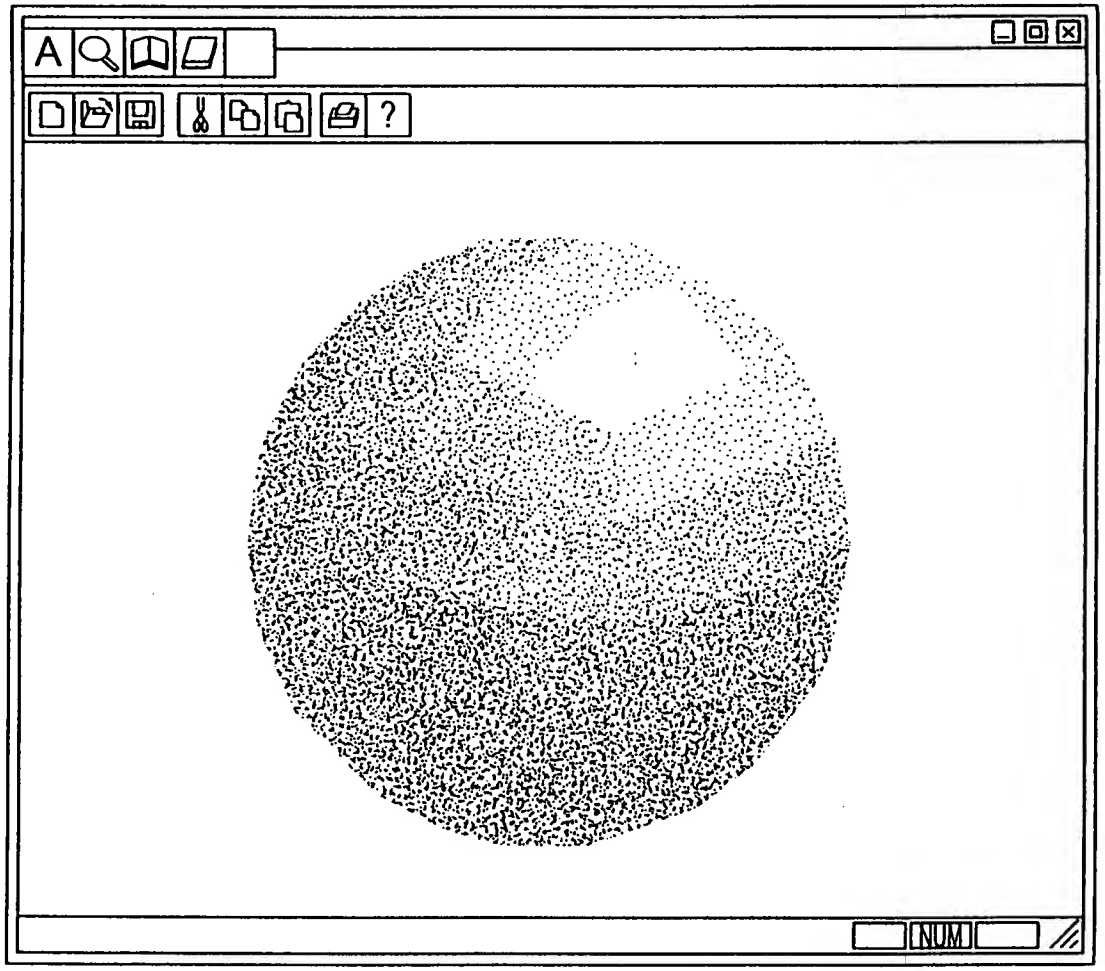


FIG. 38

T06280 "6342460

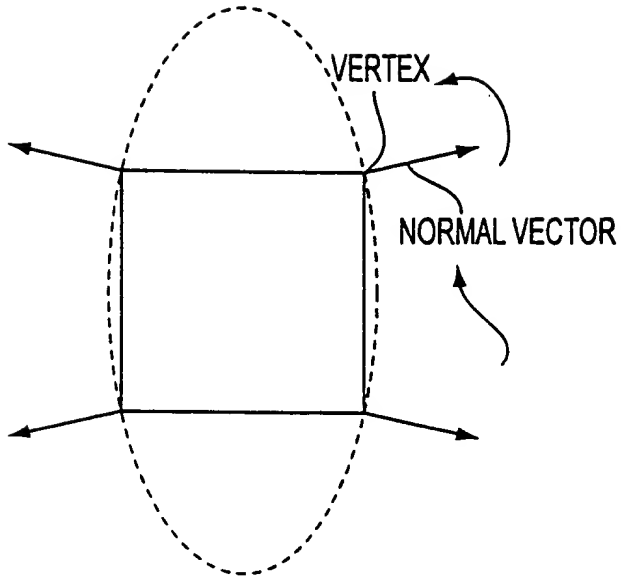


FIG. 39

T06280" 6TE2+660

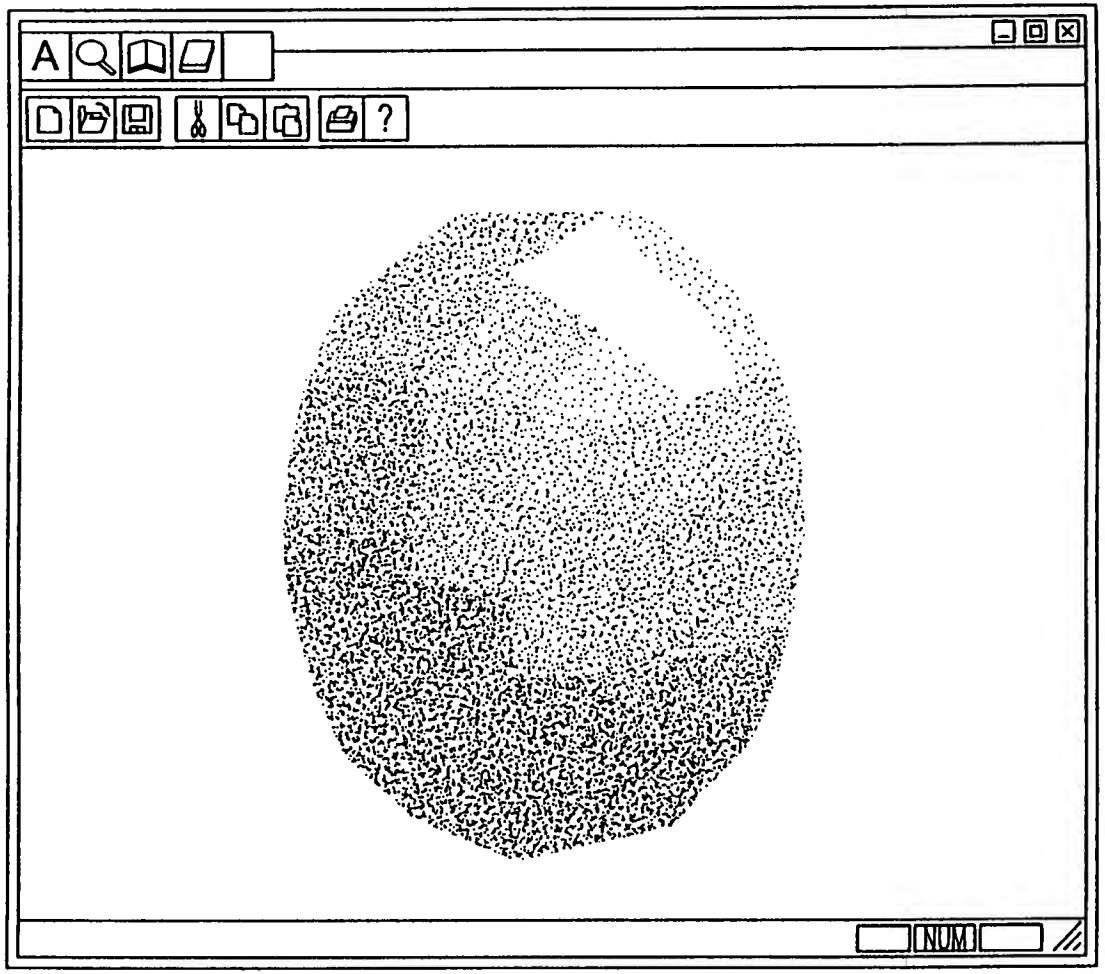


FIG. 40

FIG. 41

T06280"6TE2h660

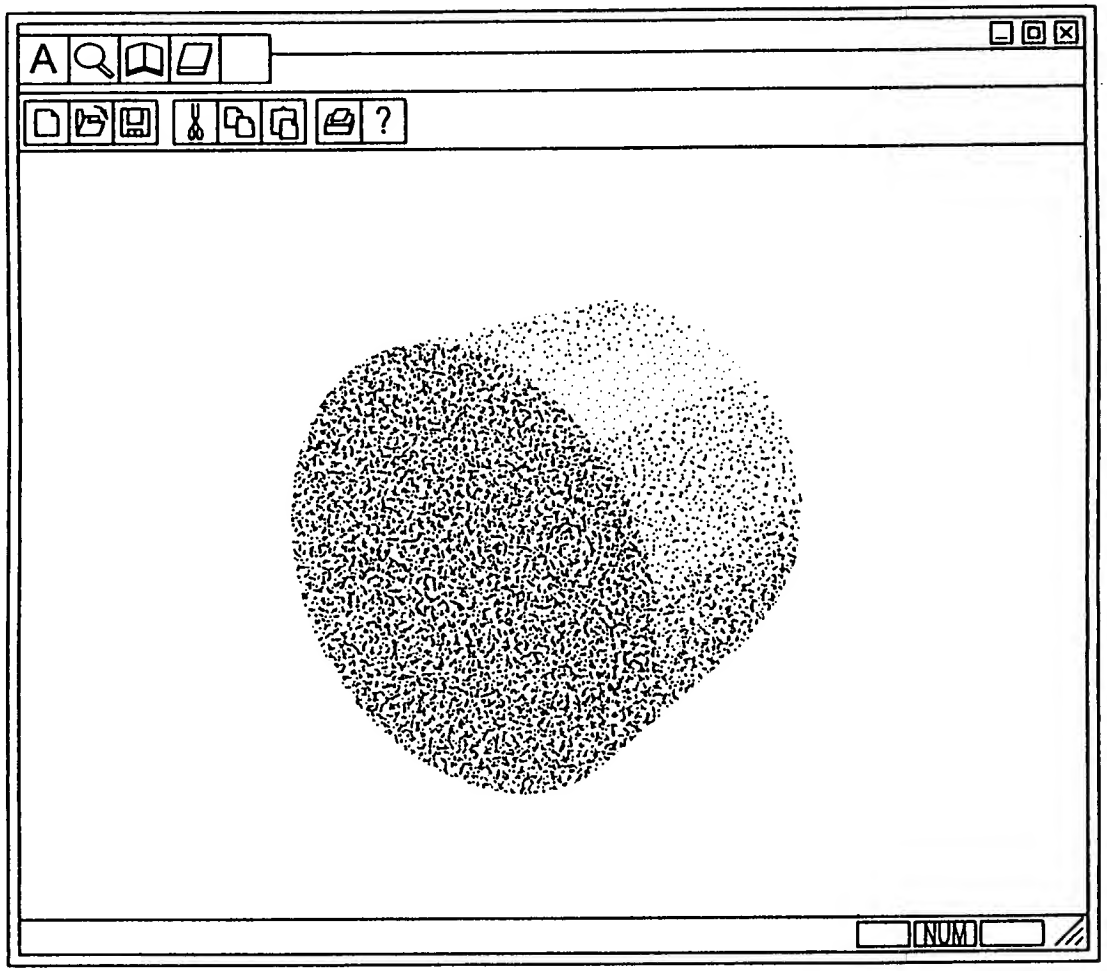


FIG. 42

EP 0 268 990 A2

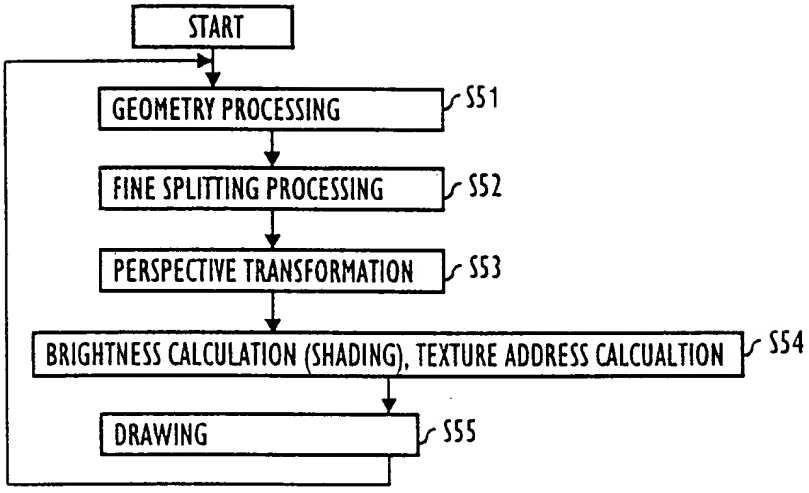


FIG. 43

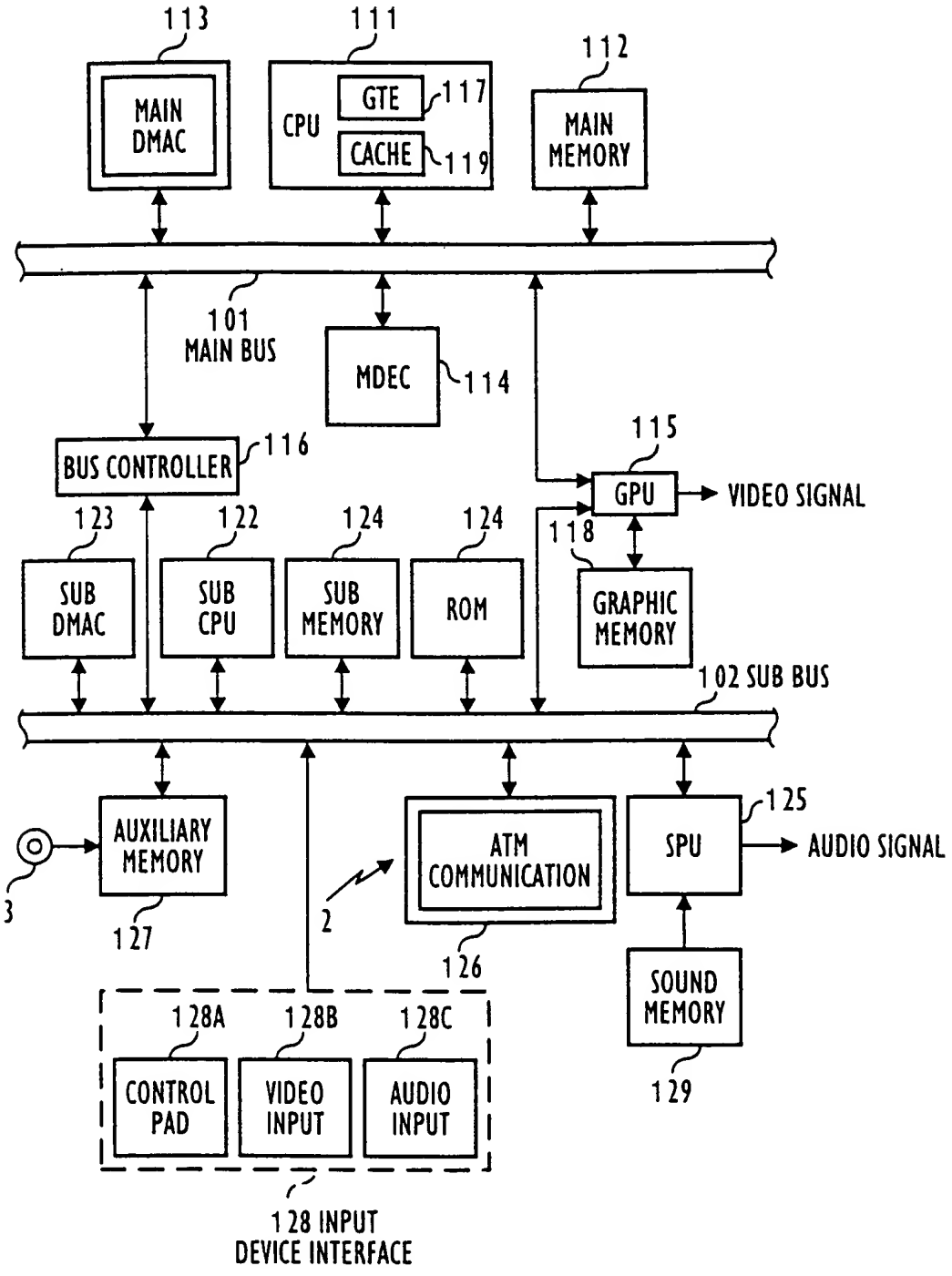

113
MAIN DMAC
111
CPU
GTE
117
CACHE
119
112
MAIN MEMORY
101
MAIN BUS
MDEC
114
BUS CONTROLLER
116
115
GPU
VIDEO SIGNAL
123
SUB DMAC
122
SUB CPU
124
SUB MEMORY
124
ROM
118
GRAPHIC MEMORY
102 SUB BUS
AUXILIARY MEMORY
3
127
2
ATM COMMUNICATION
126
SPU
125
AUDIO SIGNAL
SOUND MEMORY
129
128A
CONTROL PAD
128B
VIDEO INPUT
128C
AUDIO INPUT
128 INPUT DEVICE INTERFACE

FIG. 44

T06280 "6TE2H660

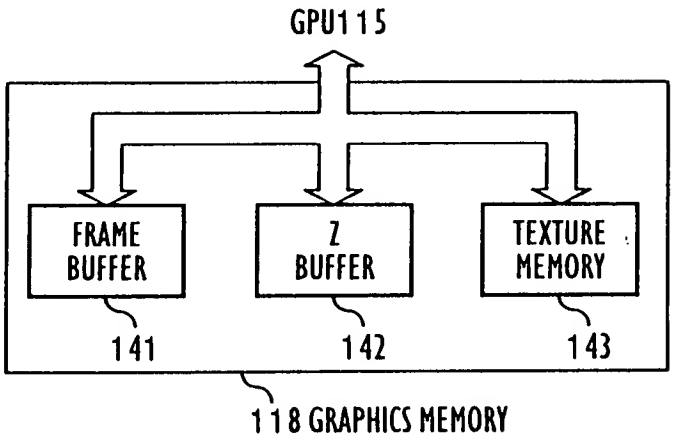


FIG. 45